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UNITED STATES
DEPARTMENT OF AGRICULTURE

Miscellaneous Publication No. 60

Issued November 1929

Revised January 1937

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U. S. Department of Agriculture

List of
Available Publications
of the

United States
Department of Agriculture

January 2, 1937

Arranged by Subjects

SEE REVISED
EDITION



Compiled by

F. L. ZIMMERMAN

Division of Publications

~~Extension Division~~

Office of Information

Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.



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DEPARTMENT OF AGRICULTURE
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United States
Government Printing Office
Washington : 1937

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LIST OF AVAILABLE PUBLICATIONS OF THE UNITED STATES DEPARTMENT OF AGRICULTURE ¹

RULES GOVERNING THE DISTRIBUTION OF PUBLICATIONS

FREE DISTRIBUTION

The editions of Department publications are so limited that it is impossible to keep a complete supply in stock at all times. It has therefore been found necessary to restrict the free distribution. One copy each of any 10 nontechnical publications will be sent free unless the free supply has become exhausted. Publications preceded by an asterisk (*) are for sale only. The free supply of publications not preceded by an asterisk may become exhausted at a later date and may then be purchased at the prices indicated. *See heading How to Order.*

CONGRESSIONAL DISTRIBUTION

If quantities of Farmers Bulletins are desired, it is often possible to obtain them free by applying to a Senator or Representative in Congress, as four-fifths of the editions of this series are allotted to Members of Congress for such distribution as they wish to make.

SALES DISTRIBUTION

The United States Department of Agriculture does not sell publications. However, the Superintendent of Documents, Government Printing Office, Washington, D. C., is empowered by law to have printed for sale any publication for which there is a demand that cannot be filled by the Department. Requests for publications in excess of 10 copies and for those indicated for sale only by an asterisk should be directed to the Superintendent of Documents, Government Printing Office, Washington, D. C. *See heading How to Order.*

NOTE

For additional information of an agricultural nature which is not covered in this list, applicants may write to the Office of Information, United States Department of Agriculture, Washington, D. C.

¹ Acknowledgment is made to Phyllis R. Read, distribution section, for assistance in the compilation of the list.

MA. H. FEB 4 1937

HOW TO ORDER

PUBLICATIONS FOR FREE DISTRIBUTION

1. Write to the Division of Publications, Office of Information, United States Department of Agriculture, Washington, D. C.
2. Write your name and address plainly on your letter and the envelope. Be sure that you have given the correct street address or rural route number.
3. Give both the numbers and titles of the bulletins you desire.
4. Arrange your request for bulletins in numerical order by series.
5. Do not send money or stamps to the Department for publications or information. The Department does not sell its publications.
6. Do not return this list when ordering.

PUBLICATIONS FOR SALE ONLY

1. Address your order and remittance to the Superintendent of Documents, Government Printing Office, Washington, D. C.
2. The rules of the Government Printing Office require that remittances be made *in advance* of shipment of publications.
3. A discount of 25 percent is allowed on orders for 100 or more copies of a publication.
4. Remittance should be made either by coupons, sold in sets of 20 for \$1 and good until used, or by check or money order made payable to the Superintendent of Documents.
5. Currency is sent at sender's risk.
6. Postage stamps, foreign money, and defaced or smooth coins are not acceptable.
7. Postage is not required for shipment within the United States, or to Alaska, Guam, Hawaii, Panama Canal Zone, Philippine Islands, Puerto Rico, Republic of Panama, Samoa (U. S.), Virgin Islands (U. S.), Canada, Cuba, Mexico, and Newfoundland (including Labrador). For shipment to all other countries an additional amount of about one-third of the purchase price is required.
8. Remittances from foreign countries should be by international money order, or draft on an American bank, payable to the Superintendent of Documents, Government Printing Office, Washington, D. C., U. S. A.
9. Arrange your request for bulletins in numerical order by series.
10. Do not return this list when ordering.

NATURE AND SCOPE OF PUBLICATIONS

The different series of Department publications are here given in alphabetical order and briefly described.

**AGRICULTURAL ADJUSTMENT ADMINISTRATION
PUBLICATIONS**

For information and publications apply direct to the Division of Information, Agricultural Adjustment Administration, Washington, D. C.

CIRCULARS

The circular series carries semitechnical material of a somewhat informal and general nature. This series was formerly known as the Department Circular series, which ended with no. 425.

FARMERS' BULLETINS

Farmers' Bulletins cover a wide range of subject matter and are of interest to many persons. They are written in popular language and contain recommendations and directions for procedure in modern farm and household practices.

INVENTORIES OF SEEDS AND PLANTS IMPORTED

This series is a record of new or little-known seeds and plants procured mostly from abroad for the use of the Department, State experiment stations, and for distribution to experimenters in appropriate locations throughout the United States and its possessions. These publications are intended for distribution to the agricultural experiment stations, arboretums, botanic gardens, and to the more important private cooperators. There are four issues a year, each covering a 3-month period.

LEAFLETS

Leaflets carry popular material of the same general character as the Farmers' Bulletin series, except that they are confined to specific practical directions and recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and limited to eight pages in length.

MISCELLANEOUS PUBLICATIONS

This series includes publications of a miscellaneous nature which do not fall within any of the other series of the Department. It was formerly called the Miscellaneous Circular series, which ended with no. 110.

NORTH AMERICAN FAUNA

This is a technical series of the Bureau of Biological Survey, devoted principally to revisions of genera of vertebrate wildlife and to biological surveys of States and other major areas. These publications are of interest chiefly to professional biologists.

SERVICE AND REGULATORY ANNOUNCEMENTS

Service and regulatory announcements contain such notices of judgment, decisions, and other information needed in the enforcement of regulatory acts. Requests

For information in obtaining publications free and for sale, see p. 2, How to Order.

for them should be made to the bureau concerned. They are issued as necessary by the Bureau of Agricultural Economics, the Bureau of Animal Industry, the Bureau of Biological Survey, the Bureau of Dairy Industry, the Bureau of Plant Industry, the Bureau of Entomology and Plant Quarantine, and the Food and Drug Administration. Distribution is limited to public officials whose duties make it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

The Bureau of Animal Industry issues one announcement monthly for the dissemination of information, instructions, rulings, etc., concerning the work of the Bureau. It contains also statistical information on meat inspection and the administration of livestock laws. Free distribution is for official use only. The Superintendent of Documents, Government Printing Office, Washington, D. C., carries a subscription list at 25¢ a year, domestic, and 45¢ a year, foreign. Single issues sell for 5¢ a copy.

The Bureau of Entomology and Plant Quarantine issues an announcement quarterly. The important announcements published during the 3 months are reproduced in the quarterly announcement. These are not for sale.

SOIL SURVEYS

Soil Survey reports consist of two parts: (1) A printed report, containing brief descriptions of the area, its climate and agriculture, and detailed description of the soils; (2) a soil map in colors, showing the extent and distribution of the different soils in the area covered by the survey.

STATISTICAL BULLETINS

Statistical Bulletins consist mainly of tables giving statistics relating to one or more closely related agricultural commodities. They also include, insofar as possible, statistics of production, movement from the farm, receipts at principal markets, reshipments, farm and market prices, exports and imports, production in foreign countries, and foreign-market prices. They are of interest to persons actually engaged in agricultural work, particularly marketing, or any business affected by agricultural production and marketing.

TECHNICAL BULLETINS

Results of the scientific and research work of the United States Department of Agriculture are printed in the Technical Bulletin series, which is intended for distribution chiefly to scientists and subject-matter specialists. In most cases a comparatively small edition is printed, and only a limited number is available for free distribution. Formerly these publications were called the Department Bulletin series, which ended with no. 1500.

For information in obtaining publications free and for sale, see p. 2, How to Order.

YEARBOOKS

All yearbooks contain a copy of the Secretary's annual report and, prior to the 1936 issue, several hundred tables of statistics of agriculture. Prior to 1922 they contained popular articles on agricultural subjects prepared by Department specialists. Comprehensive economic articles on the different classes of livestock and farm crops appear in the issues for 1922 to 1925, inclusive. Short articles describing what's new in agriculture were published beginning with the issue of 1926. Genetic studies of different classes of livestock and a few farm crops, and 25 tables of agricultural statistics, appear in the 1936 Yearbook.

PERIODICAL PUBLICATIONS

The following is a brief description of each periodical issued by the United States Department of Agriculture. The free mailing list is limited to not more than 2,000 addresses, outside of its employees and cooperators, for each periodical.

If an individual is engaged in work along agricultural lines and desires to be listed to receive any of these series, it will be necessary for him to furnish a description of nature and scope of the work with his application. The Department will then notify him whether or not it can comply with the request.

The Superintendent of Documents, Government Printing Office, Washington, D. C., maintains a subscription list for all periodical publications, and in case a person cannot be placed on the free list, he can, by sending the necessary remittance to that official, be placed on the subscription list.

AGRICULTURAL SITUATION

The Agricultural Situation, a 24-page bulletin issued monthly by the Bureau of Agricultural Economics, contains a brief general summary of current agricultural conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products. Its general purpose is to furnish extension workers and others with a very concise picture of economic conditions in agriculture from month to month. Free distribution is limited to Department employees, staff members of agricultural colleges, cooperators, libraries, and the press. 25¢ a year, domestic; 45¢ a year, foreign.

CLIMATOLOGICAL DATA

Climatological Data contains weather statistics from 42 sections, corresponding, as a rule, to States; issued monthly, with an annual summary. One section, 5¢ a month, 25¢ a year; all 42 sections, 40¢ a month, \$5 a year, including the annual summary; \$7 a year, foreign. Annual Summary for the 42 sections, 50 cents. Climatological Data for Alaska, Hawaii, and West Indies are issued monthly, and in an annual summary. One section, 5¢ a month, 50¢ a year.

For information in obtaining publications free and for sale, see p. 2, How to Order.

CLIP SHEET

The Clip Sheet is made up of short articles concerning the work of the United States Department of Agriculture and the application of new ideas and discoveries in the fields of agriculture and science. From four to six stories, varying from fillers of a few lines to articles of 200 to 300 words, are included in each weekly issue. This publication is not sent to individuals other than those who contribute regularly to some branch of the press. Free distribution is confined to newspapers and other interested publications and writers. (No subscription list.)

CONSUMERS' GUIDE

Consumers' Guide is a biweekly illustrated bulletin published by the Consumers' Counsel of the Agricultural Adjustment Administration. It contains articles and data designed to aid consumers in understanding changes in prices and cost of food and farm commodities, and in making wise and economical purchases; to acquaint consumers with efforts being made by individuals and groups of consumers to obtain the greatest possible value for their expenditures; to interpret to consumers the purposes and operation of the Agricultural Adjustment Administration. Subscription is free.

Requests should be addressed to the Division of Consumers' Counsel, Agricultural Adjustment Administration, Washington, D. C.

CROPS AND MARKETS

Crops and Markets contains statistics concerning crops and livestock estimates and market information. It contains reports on supplies, stocks, commercial movements, condition and prices of agricultural products covered in the work of marketing and crop estimating, and studies of prices and demand. A feature is a page of charts which show the movement of prices of farm products and retail prices of commodities farmers buy. It is of particular interest to economists, statisticians, and persons whose business is affected by agricultural production and marketing. Free distribution is limited to Department employees, staff members of agricultural colleges, coöperators, libraries, and the press. \$1 a year, domestic; \$1.50 a year, foreign.

EXPERIMENT STATION RECORD

The Experiment Station Record is a technical review of the scientific literature pertaining to agriculture and home economics, with special attention to the contributions of the State agricultural experiment stations and the Federal Department of Agriculture. It is issued in two volumes a year of seven numbers each, and each volume contains about 3,500 abstracts of current research in the various divisions of these subjects, together with brief notes on the progress of agricultural education and research and monthly editorials dealing with some phase of its advancement.

For information in obtaining publications free and for sale, see p. 2. How to Order.

The Record is particularly designed for the use of research workers, teachers, extension specialists, and others desiring to keep abreast of the new information in the various fields of agriculture and home economics, and as a work of reference for ascertaining the status of research in these fields since it began publication in 1889. Free distribution is restricted mainly to workers in agricultural colleges and experiment stations and similar institutions, libraries, and exchanges. 15¢ a copy; \$1.00 a volume, domestic; \$1.50 a volume, foreign.

EXTENSION SERVICE REVIEW

The Extension Service Review, a monthly magazine issued by the Extension Service, is published in the interests of workers and cooperators of the Department of Agriculture engaged in extension activities. It contains official statements and other information necessary to the performance of their duties and is issued free to them by law. Others may obtain copies of the Review from the Superintendent of Documents, Government Printing Office, Washington, D. C., by subscription at the rate of 50¢ a year, domestic (single copies, 5¢ each), and 90¢ foreign. Postage stamps will not be accepted in payment.

JOURNAL OF AGRICULTURAL RESEARCH

The Journal of Agricultural Research is a semi-monthly publication containing articles on technical agricultural research carried on by the United States Department of Agriculture or the State experiment stations, or both cooperatively. It is therefore of primary interest only to agricultural scientists and advanced students. Free distribution of the Journal is limited to certain libraries and to institutions or departments doing research work. It is offered for sale at the following prices: Domestic, \$3.25 a year (two volumes) or 15¢ a number; foreign, \$4.75 a year (two volumes) or 20¢ a number. Each article in the Journal is reprinted as a "separate." These reprints or separates may be purchased for 5¢ each if ordered in advance of printing. Anyone interested can have his name placed on a mailing list to receive notice of the issuance of articles on the subjects in which he is interested. Requests to be placed on this list should specify the subjects concerning which it is desired to keep informed.

MONTHLY LIST OF PUBLICATIONS

This list is issued approximately on the twentieth day of each month, and gives the titles and description of each publication issued during the preceding month. Anyone so desiring will be listed to receive it as issued free of charge.

MONTHLY WEATHER REVIEW

The Monthly Weather Review contains contributions on meteorology and climatology; also climato-

For information in obtaining publications free and for sale, see p. 2, How to Order.

logical data for Weather Bureau stations. 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.

PUBLIC ROADS

Public Roads is a monthly periodical dealing with highway research. The results of investigation relating to the physical and economic problems of road building conducted by the Bureau of Public Roads and cooperators of the Bureau are made available to road builders through this medium. Free distribution is restricted to State and county officials actually engaged in planning or constructing public highways, instructors in highway engineering, and periodicals upon an exchange basis. 10¢ a copy, \$1 a year, domestic; \$1.50 a year, foreign.

SOIL CONSERVATION

Soil Conservation contains technical articles and current information on the work of experiment stations, other research projects, and demonstration projects of the Soil Conservation Service. It is a monthly publication designed particularly for the use of workers and cooperators of the Department engaged in soil-conservation activities. Free distribution is limited to workers in agricultural colleges, experiment stations and similar institutions, libraries, and exchanges. 10¢ a copy; \$1 annual subscription.

WEEKLY CORN AND WHEAT REGION BULLETIN

Weekly Corn and Wheat Region Bulletin, issued at Chicago, Ill., April 1 to September 30, inclusive. 30¢ a season; 70¢ a season, foreign.

WEEKLY COTTON REGION BULLETIN

Weekly Cotton Region Bulletin, issued at New Orleans, La., April 1 to October 31, inclusive. 30¢ a season; 75¢ a season, foreign.

WEEKLY WEATHER AND CROP BULLETIN

The Weekly Weather and Crop Bulletin gives detailed weather conditions of the preceding week and their effects on farm operations and the development of crops; shows variations of temperature and rainfall from normal week, total rainfall for the season in comparison with normal, and snow and ice data (during the winter); and discusses the amount of sunshine and cloudiness. 50¢ a year.

AGRICULTURAL AND VISUAL EDUCATIONAL MATERIAL

(See also Department Organization: Bibliographies and Lists of Publications.)

MOTION PICTURES

The Division of Motion Pictures, Extension Service, produces and distributes motion pictures on subjects with which the Department is concerned. These pictures are designed to aid the Department in its wide activities. They cover such subjects as livestock, crops, conser-

For information in obtaining publications free and for sale, see p. 2, How to Order.

vation, marketing, control of plant and animal diseases, etc. They are both sound and silent and are released in 16- and 35-millimeter widths. They are loaned to responsible agencies or persons and may be purchased outright. A catalog listing the films, with short descriptions and details of loans and purchase, is issued annually.

PUBLICATIONS

Farmers' Bulletins:

- *173 F. A primer of forestry. 5¢.
- *218 F. The school garden. 5¢.
- *358 F. A primer of forestry. Part II: Practical forestry. 5¢.
- 1087 F. Beautifying the farmstead. 5¢.
- 1175 F. Better seed corn. 5¢.
- 1486 F. Long-leaf pine primer. 5¢.
- 1492 F. Arbor Day: Its purpose and observance. 5¢.
- 1517 F. Loblolly pine primer. 5¢.
- 1601 F. Collection and preservation of insects for use in the study of agriculture. 5¢.

Department Bulletins:

- *258 D. Lessons in elementary agriculture for Alabama schools. 5¢.
- *592 D. Courses in secondary agriculture for southern schools. (Third and fourth years). 5¢.
- *863 D. Forestry lessons on home woodlands. 10¢.

Department Circulars:

- *155 DC. How teachers may use Farmers' Bulletin 1087, Beautifying the Farmstead. 5¢.
- *156 DC. How teachers may use Farmers' Bulletin 1175, Better Seed Corn. 5¢.

Miscellaneous Circulars:

- *3 MC. The relation of agricultural education to farm organizations. 5¢.
- *27 MC. Motion pictures of the United States Department of Agriculture. 5¢.
- *31 MC. Let's know some trees. 5¢.
- 78 MC. Use of motion pictures in agricultural extension work. 10¢.
- *79 MC. A forest fire prevention handbook for school children. 15¢.
- *88 MC. A forest fire prevention handbook for the schools of Arizona. 10¢.
- *89 MC. A forest fire prevention handbook for the schools of New Mexico. 10¢.
- *98 MC. The forest: A handbook for teachers. 10¢.

Miscellaneous Publications:

- *2 MP. The story of the cattle-fever tick: What every Southern child should know about cattle ticks. 10¢.
- *20 MP. A forest fire prevention handbook for the schools of Oregon. 10¢.
- *35 MP. Cotton or weevils. 10¢.
- *36 MP. A history of agricultural education in the United States, 1785-1925. \$1.00.
- 72 MP. Lantern slides and film strips of the United States Department of Agriculture. 5¢.
- 109 MP. Forest rangers' catechism: Questions and answers on the national forests of the California region. 15¢.
- *152 MP. Motion pictures of the United States Department of Agriculture, 1932. 5¢.
- 162 MP. Our forests: What they are and what they mean to us. 5¢.
- *208 MP. Motion pictures of the United States Department of Agriculture, 1934. 5¢.
- *227 MP. Motion pictures of the United States Department of Agriculture, 1935. 5¢.

Yearbook Separates:

- *607 Y. Agriculture in public high schools. 5¢.

Unnumbered:

Atlas of American agriculture:

- *Frost and the growing season. 75¢.
- *Natural vegetation. 75¢.
- *Precipitation and humidity. \$1.50.
- *Soils of the United States. \$5.00.
- *Temperature, sunshine, and wind. \$1.60.
- *Geography of the world's agriculture. \$1.00.
- *Graphic summary of American agriculture. M. P. 105. 60¢.
- *Graphic summary of world agriculture. 713 Y. 15¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Charts:

- *Child feeding. Set of 8 black and white charts, 15 by 23 inches. 25¢ a set.
- *Composition of food material. Set of 15 colored charts, 24 by 18 inches. \$1.00 a set.
- *Household refrigeration. Set of 6 black and white charts, 16 by 20 inches. 20¢ a set.
- *Meat cooking. Set of 7 black and white charts, 20 by 30 inches. 50¢ a set.
- *Nutrition. Set of 11 black and white charts, 15 by 23 inches. 50¢ a set.
- *100-calorie portions of a few familiar foods; 1 chart, 23 by 17 inches, showing pen and ink sketches of 20 foods. 10¢.
- *The convenient kitchen. Set of black and white charts, 16 by 20 inches. 50¢ a set.
- *Wholesale and retail cuts of beef, veal, lamb, and fresh pork. Four charts, 50¢ a set.

***Climatic Charts for the United States:**

(Fifteen charts, 10 by 16 inches; 75¢ per set; single charts, 5¢ each.)

1. Normal annual precipitation.
2. Average annual number of days with precipitation.
3. Normal annual temperature.
4. Normal January temperature.
5. Normal July temperature.
6. Highest temperature ever observed.
7. Lowest temperature ever observed.
8. Mean relative humidity (percent), January, 8 a. m., 75th meridian time.
- 8A. Mean relative humidity (percent), January, noon, local time.
9. Mean relative humidity (percent), January, 8 p. m., 75th meridian time.
10. Mean relative humidity (percent), July, 8 a. m., 75th meridian time.
- 10A. Mean relative humidity (percent), July, noon, local time.
11. Mean relative humidity (percent), July, 8 p. m., 75th meridian time.
- 11A. Mean relative humidity (percent), year, noon, local time.
12. Average minimum temperature (Fahrenheit), January.

***Frost Charts for the United States:**

(Five charts, 10 by 16 inches; 25¢ per set; single charts, 5¢ each.)

- I. The average date of the last killing frost in spring.
- II. The average date of the first killing frost in autumn.
- III. The latest date on which a killing frost has occurred in spring.
- IV. The earliest date on which a killing frost has occurred in autumn.
- V. The average length of the crop-growing season, days.

***Educational Charts on Agriculture and Home Economics.**—Copies of these charts, 12 by 15 inches in size, can be purchased from the Superintendent of Documents, Government Printing Office, Washington, D. C., at a price of 5 cents for single charts or any number up to five charts. Five charts are 5 cents. Each additional chart is 1 cent.

- 1.1a. Beef breeds of cattle.
- 1.176. Grades of beef, ribs and rounds.
- 1.271. Milk and butter production.
- 1.2732. Cheese making.
- 1.2737. Cheeses.
- 1.3a. Breeds of hogs.
- 1.3b. Breeds of hogs.
- 1.33. Comparison of bacon and lard types of hogs.
- 1.381. Rough and trimmed pork cuts.
- 1.382. Rough and trimmed ham and shoulder.
- 1.383. Bacon, bacon trimmings, and jowl bacon.
- 1.384. Pork loins and chops.
- 1.40. Light breeds of horses.
- 1.402. Heavy breeds of horses.
- 1.6. Breeds of sheep.
- 1.681. Wholesale cuts of lamb.
- 1.682. More popular lamb cuts.
- 1.683. Less known lamb cuts.
- 2.01. Four small grains.
- 2.03. Pests of small grains.
- 2.04. Harvesting small grains.

For information in obtaining publications free and for sale, see p. 2. How to Order.

*For sale only.

***Educational Charts on Agriculture and Home Economics—Contd.**

- 2.05. Grain marketing.
- 2.21. Corn and corn plants.
- 2.22. Corn production.
- 2.23. Pests of corn.
- 2.24. (1) Harvesting corn.
- 2.24. (2) Harvesting corn.
- 2.25. The corn crop.
- 2.26. Seed corn.
- 2.51. Rice.
- 2.52. Rice production.
- 3.01. Some fiber plants.
- 3.11. The cotton plant.
- 3.12. Cotton products.
- 3.13a. Diseases of cotton.
- 3.13b. Insect pests of cotton.
- 3.15-1. Ginning and marketing cotton.
- 3.15-2. Cotton producing areas and distributing centers.
- 3.16. Cotton improvement.
- 3.172a. Cotton manufacturing. Chart 1.
- 3.172b. Cotton manufacturing. Chart 2.
- 3.20. Fiber flax.
- 5.090. (1) Storage of fruits and vegetables for home use.
- 5.099. (2) Storage of fruits and vegetables for home use.
- 5.272. Dried fruit industry.
- 5.564. Dryness in citrus fruits.
- 5.565. Appearance and quality of citrus fruit.
- 5.72. Potato cultivation and planting.
- 5.74. Potato spraying and harvesting.
- 5.79. Some causes of potato waste.
- 5.80. Sweetpotatoes.
- 6.12. Sugarcane.
- 6.22. Sugar beet.
- 6.32a. Cigar tobacco.
- 6.32b. Flue-cured tobacco.
- 6.91. Buckwheat and arrow root.
- 7.78. Veneer and its uses in furniture construction.
- 7.70. Furniture woods.
- 7.77. How lumber may be cut.
- 8.10. A well-planned farm food supply.
- 8.104. In days of plenty provide for the lean months.
- 8.21a. Good sources of vitamins A and D.
- 8.21b. Good sources of vitamins B and C.
- 8.271. Bone growth begins before birth.
- 8.272. Poorly built bones go wrong.
- 8.273. (1) The teeth and their structure. (Photographs.)
- 8.273b. (2) The teeth and their structure. (Diagrams.)
- 8.274. The development of the teeth illustrated by X rays of the jaws of children.
- 8.275. The development of the teeth illustrated by X rays of the jaws.
- 8.276. Premature loss of temporary teeth may deform the jaws.
- 8.278. Sunshine is necessary for mothers as well as children.

*Copies of these charts, 12 by 15 inches in size, can be purchased from the Superintendent of Documents, Government Printing Office, Washington, D. C., at a price of 5 cents for single charts or any number up to five charts. Five charts are 5 cents. Each additional chart is 1 cent.

Film Strips:

*Film strips in series cover a variety of agricultural and home economics subjects and are accompanied by supplementary notes for lecture use. A price list of available film strips may be obtained from the Division of Cooperative Extension, United States Department of Agriculture, Washington, D. C.

Maps:

- *Natural land-use areas of the United States. (Colored map). 50¢.
- *Progress map showing the status of improvements of the Federal-aid highway system in the 48 States. 114 sheets at 10¢ a sheet.
- *The natural forest regions of the United States, listing the principal trees of each region. (Map in colors.) 18 by 20 inches. 5¢.
- *The numbered system of United States Highways. Desk-size map. 15¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Maps—Continued.

- *Transportation maps showing the highway, water, rail, and air routes in the 48 States, now in preparation. Maps now available are as follows: Iowa 8 sheets, Florida 12 sheets, Maine 6 sheets, New Hampshire 2 sheets, and Vermont 2 sheets. The price of the maps is 20 cents per sheet.
- *Type-of-farming areas in the United States (Colored map). 25¢.
- *Value of farm land and buildings per acre. Based on the 1930 census. (Colored map). 10¢.
- *Educational Series.—(1) *Weather Forecasting (Bulletin no. 42), (2) Explanation of weather map and sample weather map, (3) Cloud chart, (4) The Weather Bureau, pamphlet descriptive of work of Bureau. 10¢ per set.
- *Daily weather map (Form C, 19 by 24 inches), issued at Washington, D. C., shows the weather conditions for the United States and the forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ per month, \$3.00 per year; daily, including Sundays and holidays, 30¢ per month, \$3.60 per year; Sunday and holiday maps only (no subscription for less than 6 months), 30¢ for 6 months, 60¢ per year; foreign subscriptions, \$9.10 per year.
- *Daily weather maps (Map DD, 11 by 16 inches, and Map CM, 8 by 12 inches, printed, and Map E, 11 by 16 inches, mimeographed), showing the weather conditions and forecasts, issued daily, except Sundays and holidays, at numerous stations throughout the United States; 20¢ per month, \$2.40 per year.
- *Copies of the daily weather map (DD, E, and CM) cannot be furnished in quantities unless the order is placed in advance of issue with the official in charge of the station or with the Superintendent of Documents, Washington, D. C., and are sold (not less than 25) at 80¢ per 100 copies.
- *Blank Weather Maps for use in meteorological studies will be furnished on receipt of price, viz., Washington base maps (Form C, 19 by 24 inches), \$1 per 100; station base maps (Maps DD, 11 by 16 inches), 25¢ per 100. Blank maps, being of the nature of supplies, cannot be furnished free. Draft or money order must be made payable to Disbursing Clerk, U.S. Department of Agriculture, Washington, D.C., and forwarded with order to U.S. Weather Bureau, Washington, D.C. When more than 50 blank Washington base maps (Form C, 19 by 24 inches) or more than 150 blank stations base maps (Maps DD, 11 by 16 inches) are ordered at one time shipment has to be made by express "collect" for express charges, and must be so authorized by purchaser. Full shipping instructions must accompany the order.

Posters:

- *Apple and pear injuries. 1 colored poster. 7¼ by 12 inches. 5¢.
- *Apple diseases and injuries. 11 colored posters. 7¼ by 12 inches. 55¢ a set.
- *Color standards for grades of comb honey. Poster. 7 by 17 inches. 5¢.
- *Diseases of corn. 2 colored posters. 7¼ by 12 inches, 10¢ a set.
- *Diseases of potatoes. 13 colored posters. 7¼ by 12 inches. 65¢ a set.
- *Diseases of tomatoes, eggplants, and peppers. 11 colored posters. 7¼ by 12 inches. 55¢ a set.
- *Pear diseases and injuries. 4 colored posters. 7¼ by 12 inches. 20¢ a set.
- *Vandals of the night. While America sleeps, rats destroy entire labor of 200,000 men and pestilence lurks in their wake. For use in encouraging control of rats in cooperative campaigns. (Colored poster). 5¢.

(FOR SALE ONLY)

(Apply to bureau concerned)

FOREST SERVICE:**Photographic material:**

The Forest Service has a collection of over 50,000 pictures of various sizes, showing characteristic growth and types of forest in the United States, various phases of forest work, forest industries, administration and use of the national forests, and related subjects. Prints of these photographs, as well as enlargements either in sepia or in black and white, may be purchased. A price list of photographic material will be sent upon request to the Forest Service, Washington, D. C.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

OFFICE OF INFORMATION:

(Apply direct to the Office of Information, United States Department of Agriculture, Washington, D. C., for this sales material.)

Photographs of plants, animals, insects, and other subjects like or similar to illustrations in Department publications. 5 by 7, 9¢; 6½ by 8½, 12¢; 8 by 10, 18¢ each.

Photographs of weed seed found in commercial seed, 6½ by 8½. 15 in set, \$1.80.

(FOR FREE DISTRIBUTION)

(Apply to the bureau concerned for the following free material)

BUREAU OF AGRICULTURAL ECONOMICS:

(For free distribution unless otherwise stated)

Poster entitled "We sell U. S. Government graded and stamped beef." Issued to meat retailers who are handling U. S. graded beef. Colored posters showing type animals of the official grades of live animals:

U. S. grades for slaughter steers.

U. S. grades for slaughter heifers.

U. S. grades for slaughter cows.

U. S. grades for feeder steers.

U. S. grades for slaughter lambs.

Colored poster: U. S. grades for cannery tomatoes, showing type of three grades.

Colored charts showing United States standards and grades for eggs.

This brings out differences in egg quality as seen before the candle.

Poster entitled "We serve U. S. Government graded and stamped beef."

Posters in black and white relating to the grade labeling for consumers of beef, lamb, veal, sausage and similar processed meats, poultry, eggs, butter, and canned fruits and vegetables (10½ by 16 inches). For educational purposes.

*Economic charts.—Photographic prints, 8 by 10 inches, are furnished on order of any maps and charts issued by the Bureau of Agricultural Economics in current publications. Enlargements 30 by 40 inches for use as wall charts are made to order at 75¢ each on paper and \$1.25 each mounted on cloth.

Outlook chart books for use with the 1936 agricultural outlook:

Demand, credit and prices.

Feed crops, corn, oats, barley, hay, and total livestock.

Flax, soybeans, peanuts, and cottonseed.

Potatoes and truck crops.

Rice, broomcorn, and dry beans.

Fruits and nuts.

Beef cattle.

Sheep, lambs, and wool.

Dairy products.

Poultry and eggs.

Cotton.

Wheat and rye.

Tobacco.

Hogs.

Farm family living.

Distribution limited to extension workers and others engaged in outlook work.

BUREAU OF ANIMAL INDUSTRY:

Posters:

Do you know good beef?

Extent of bovine tuberculosis in the United States.

Fight tuberculosis—protect your herd.

Foot and mouth disease.

48% more money from purebreds.

Free your swine and poultry from tuberculosis. Small size.

Free your swine and poultry from tuberculosis. Large size.

Hatch early (why it pays).

Help eradicate scabies.

Mold your animals into improved individuals.

Purebred sires and herd improvement.

Roundworm control and better pigs.

Standard-bred poultry pays best.

Take no chances with hog-cholera.

Ten points in better feeding.

The common sheep liver fluke.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

BUREAU OF ANIMAL INDUSTRY—Continued.

Posters—Continued.

The swine kidney worm.
Use purebred sires for more and better wool, lamb and mutton.
Well-bred cattle yield most meat.
Why purebreds excel: Value of purebreds.
Why suffer hog-cholera losses.

Livestock Series—Better Sires Pictures:

1. Judging dairy cows at a community picnic.
2. Spirit and strength in horseflesh.
3. Mutton in the making.
4. No hunger strike here (pigs).
5. Feeding her flock of white wyandottes.
6. An accredited dairy herd.
7. Angora goats.
8. Castor, versatile Morgan horse.
9. Growing into the beef business.
10. They'll pull you through (mules).

BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE:

(Posters)

Help fight the European corn borer. J.-63843.
The wheat jointworm. E.-178.

FOREST SERVICE:

The following material is sent *only* to teachers and other adults engaged in some form of forest work.

Maps and Posters:

Map (black and white) showing national forests and related data (11 by 15 inches).

Colored Posters:

"and all the King's horses and all the King's men can't put the forest together again." (Fire).
Everybody loses when timber burns.
Fire—the outlaw.
Death rides the forest. (Fire)
Children will need timber.
How a tree grows. (16 by 21 inches)
Pines pay. (Of interest to Southern States)
Good farm practice—keep stock out of the woods.
The farm woods a savings bank paying interest. (Of interest to Southern States).
The farm woods a savings bank paying interest. (Of interest to Northern States).
Death rides the forest when man is careless.

Tree Description Sheets:

Tree Description Sheets contain pictures of the tree and its parts and text dealing with the range of the species, habits of growth, description of wood, uses, etc.
The following are now available for distribution:
(1) Yellow poplar; (2) Northern white pine; (3) Longleaf pine;
(4) Red gum; (5) White oak; (6) Sugar maple.

WEATHER BUREAU:

Educational Series (free to principals and teachers of high schools):
Cloud forms (12 half-tone plates).
Weather Forecasting (Bulletin no. 42).
The Weather Bureau (descriptive pamphlet).
Explanation of the Weather Map (leaflet).
Sample copy of Washington Daily Weather Map.
The educational series may be obtained by others, at 10¢ per set; 15¢ foreign.

(MATERIAL LENT)

The following material is grouped according to bureaus and is lent to responsible persons and organizations who agree to pay expressage both ways, and to return the material within 30 days. Sizes, weights, and any other information concerning this material will be furnished on request by the bureau issuing it.

For information in obtaining publications free and for sale, see p. 2.
How to Order.

BUREAU OF AGRICULTURAL ECONOMICS:

Colored display panels:

Relating to the grade labeling for consumers of beef, lamb, veal, sausage and similar processed meats, poultry, eggs, butter, and canned fruits and vegetables. Available singly or together in two sizes (30 by 40 and 16 by 20 inches).

BUREAU OF ANIMAL INDUSTRY:

Small exhibits dealing with a variety of livestock subjects may be borrowed by responsible persons who will pay shipping charges from Washington, D. C., and return. The subjects include tuberculosis eradication, hog-cholera control, prevention and control of animal parasites, livestock improvement, and meat inspection.

The exhibits consist chiefly of illustrations, charts, and maps, mounted on panels or cloth. Preserved specimens of animal tissues are also available. Requests for exhibit material should be made preferably at least 30 days before it is needed to allow for correspondence concerning arrangements, and for crating and shipping.

FOREST SERVICE:**Traveling Photograph Exhibits (for use of teachers only):**

These exhibits are sent out on the condition that the borrower pay transportation charges and be responsible for the material while charged with it. They are divided into three classes as follows:

Forestry in nature study (32 enlarged photographs arranged in 8 series of 4 pictures each, showing forest trees and their growth, bark, buds, flowers, seeds, forests of the United States, enemies of the forest, etc.).

Our forests, what they mean to us. (32 enlarged photographs arranged in 8 series of 4 pictures each, showing special features of forest work, forest conditions, and administration and use of the national forests.)

Lantern Slides:

Sets of colored lantern slides, arranged for use with lecture outlines, are available for loan from the Forest Service to schools, colleges, State forest officers, women's clubs, and other organizations. They cover the following subjects:

Farm forestry in the South.....	54 slides.
Farm woodlands.....	57 slides.
Forest botany.....	52 slides.
Forest conservation.....	44 slides.
Forest fires—how they are caused, their effects, and their detection and suppression.....	60 slides.
Forestry and agriculture.....	50 slides.
Forestry and manual training.....	55 slides.
Forestry and nature study.....	50 and 72 slides.
Forestry in the United States.....	44 slides.
Forests and geography.....	50 slides.
Keeping livestock out of the woods in the North Central States.....	54 slides.
Life of a tree.....	52 slides.
National forest playgrounds.....	60 slides.
Stop gullies: Save your farm.....	58 slides.
Tree windbreaks.....	50 slides.
Work of the Forest Service.....	55 slides.

In addition to these special sets, the Forest Service has available for loan from its general collection, several thousand slides covering the characteristic forest growths of the United States; various phases of forest work; silviculture; watershed protection and erosion control; industries dependent upon the forests; protection of the forests, including fire control and suppression; administration and use of the national forests, and related subjects.

General:

Exhibit material of a general nature is available for loan for the use of schools, colleges, civic and other organizations, as follows:

Folding panels:

The chain of forest resources.

The forest is your friend—keep it green. (Recreation.)

Dual-purpose trees. (Turpentining.)

Farm forestry pays.

Which side of the fence are you on? (Shows forest protection with the use of plowed fire lines.)

For information in obtaining publications free and for sale, see p. 2, How to Order.

General—Continued.**Folding panels—Continued.**

Water and the forest. (Shows the relation of the forest to our water supply.)

Game and the forest.

The forest is your friend—keep it green. (Fire panel.)

The forest and water.

Forest fires or game.

Keep fire out.

Improve your farm woods. (Shows how cutting helps the timber crop.)

Grow timber.

Prevent erosion.

Fire.

(These panels are colored in oils, are equipped with electric light, weigh approximately 100 pounds crated, and are 43 by 60 inches in size.)

Educational Panels:

Tree studies—their growth and how their wood is used:

White pine	Sugar maple	Beech
Slash pine	Chestnut	Cypress
Norway pine	Red spruce	American elm
Longleaf pine	Black locust	Red gum
Loblolly pine	Red cedar	Yellow poplar
Virginia pine	Red oak	Sycamore
White ash	White oak	Dogwood
Black walnut	Basswood	Black cherry
Yellow birch	Hickory	Hemlock

(These panels are composed of photographs and wood sections of the tree represented, are 23 by 27 inches framed, and weigh approximately 15 pounds crated.)

Poster Panels:

Suggestions for marketing woodland products.

Our friend—the forest.

Fire—the forest destroyer.

The evil of woods burning.

Fire destroys trees and soil.

(These panels vary in size, but weigh around 15 pounds.)

Colored bromides on care of woodlands, erosion, farm woodlands, fire, game and birds, forest types, grazing, logging and lumbering, planting, reproduction, pulpwood, recreation and scenery, road and bridge building, turpentine, waterpower, and wood utilization.

AGRICULTURAL ECONOMICS**GENERAL****Department Bulletins:**

- *755 D. Geographical phases of farm prices: Oats. 10¢.
- *1351 D. What makes the price of oats. 10¢.
- *1435 D. Economic aspects of citrus-fruit growing in Polk County, Fla. 10¢.
- 1440 D. Factors affecting the price of hogs. 15¢.
- *1480 D. Reliability and adequacy of farm-price data. 15¢.

Department Circulars:

- *7 DC. Trend of the dairy-cattle industry in the United States and other countries. 5¢.
- *241 DC. Food animals and meat consumption in the United States. 5¢.

Miscellaneous Publications:

- *28 MP. The livestock review for 1927. 10¢.
- *54 MP. The livestock review for 1928. 10¢.
- *95 MP. The world wheat outlook, 1930, and facts that farmers should consider. 10¢.
- *104 MP. The world cotton situation with outlook for 1931-32 and the long-time outlook for southern agriculture. 10¢.
- 105 MP. A graphic summary of American agriculture based largely on the census. 60¢.
- *112 MP. The farm outlook for 1931. 5¢.
- *124 MP. The outlook for the dairy industry and some essentials of a national dairy program. 15¢.
- *137 MP. The agricultural outlook for the Southern States, 1931-1932. 10¢.
- *171 MP. The crop and livestock reporting service of the United States. 15¢.

For information in obtaining publications free and for sale, see p. 2. How to Order.

*For sale only.

Miscellaneous Publications—Continued.

- *205 MP. Economic and social problems and conditions of the southern Appalachians. 50¢.
 215 MP. The agricultural outlook for 1935. 10¢.
 235 MP. The agricultural outlook for 1936. 10¢.

Technical Bulletins:

- *50 T. Factors affecting the price of cotton. 15¢.
 *54 T. Factors influencing the yield of apples in the Cumberland-Shenandoah region of Pennsylvania, Virginia, and West Virginia. 10¢.
 *194 T. Economic status of drainage districts in the South in 1926. 10¢.
 237 T. Economic factors affecting the beef-cattle industry of Virginia. 10¢.
 297 T. Factors affecting the price of rice. 5¢.
 *301 T. The public domain of Nevada and factors affecting its use. 75¢.
 303 T. Economic utilization of marginal lands in Nicholas and Webster Counties, West Virginia. 15¢.
 311 T. Adequacy and reliability of crop-yield estimates. 10¢.

Yearbook Separates:

- *690 Y. Agriculture on Government reclamation projects. 5¢.
 *698 Y. Meeting the farmer halfway. 5¢.
 *713 Y. A graphic summary of world agriculture. 15¢.
 *807 Y. Influence of depreciation of exchange on agricultural production. 5¢.
 *877 Y. The cotton situation. 15¢.
 *1023 Y. The year in agriculture. (Secretary's report to President, 1927). 10¢.
 *1102 Y. Prices of farm products graphically presented. 1930. 5¢.

Unnumbered:

- Economic trends affecting agriculture, July 1933. 5¢.

FARM MANAGEMENT (GENERAL)**Farmers' Bulletins:**

- *761 F. Management of muck-land farms in northern Indiana and southern Michigan. 5¢.
 1078 F. Harvesting and storing ice on the farm. 5c.
 1082 F. Home supplies furnished by the farm. 5¢.
 1087 F. Beautifying the farmstead. 5¢.
 1088 F. Selecting a farm. 5¢.
 1117 F. Forestry and farm income. 5¢.
 1132 F. Planning the farmstead. 5¢.
 *1163 F. Dry farming in western South Dakota. 5¢.
 *1289 F. Distribution of types of farming in the United States. 5¢.
 *1295 F. What tractors and horses do on Corn-Belt farms. 5¢.
 *1296 F. Changes effected by tractors on Corn-Belt farms. 5¢.
 *1297 F. Cost of using tractors on Corn-Belt farms. 5¢.
 *1298 F. Cost of using horses on Corn-Belt farms. 5¢.
 *1299 F. Shall I buy a tractor? (For a Corn-Belt farm.) 5¢.
 *1300 F. Choosing a tractor. (For a Corn-Belt farm). 5¢.
 *1314 F. Motor trucks on Corn-Belt farms. 5¢.
 1405 F. The windbreak as a farm asset. 5¢.
 *1417 F. Idle land and costly timber. 5¢.
 1421 F. Successful farming on eighty-acre farms in central Indiana. 5¢.
 1463 F. Successful farming on 160-acre farms in central Indiana. 5¢.
 *1565 F. Shall I buy a combine? 5¢.
 1588 F. Frost and the prevention of frost damage. 5¢.
 1590 F. Fire-protective construction on the farm. 5¢.
 1643 F. Fire safeguards for the farm. 5¢.
 1669 F. Farm terracing. 5¢.
 1733 F. Planning a subsistence homestead. 5¢.

Circulars:

- *30 C. Farm-management extension, 1914-1924. 10¢.
 213 C. Summer fallow at Ardmore, S. Dakota. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

18 MISCELLANEOUS PUBLICATION NO. 60

Department Bulletins:

- *482 D. Farming in the bluegrass region. A study of the organization and management of 178 farms in Central Kentucky. 5¢.
- *633 D. Factors of successful farming near Monett, Mo. 5¢.
- *651 D. A farm-management study in Anderson County, South Carolina. 5¢.
- *654 D. Farm organization in the irrigated valleys of southern Arizona. 10¢.
- *678 D. Influence of a city on farming: A study of types of farms and their organization in Jefferson County, Ky. 5¢.
- *694 D. A study of farm management problems in Lenawee County, Michigan. 10¢.
- *853 D. The organization and management of farms in northwestern Pennsylvania. An analysis of the business of 422 farms in the vicinity of Grove City, Pa. 10¢.
- *984 D. The national influence of a single farm community. 20¢.
- *997 D. The cost and utilization of power on farms where tractors are owned. 10¢.
- *1034 D. Farm management and farm organization in Sumter County, Ga. 20¢.
- *1070 D. Farm management in Catawba County, North Carolina. 5¢.
- *1111 D. One-variety cotton communities. 10¢.
- *1236 D. Farming the logged-off uplands in western Washington. 10¢.
- *1241 D. How the United States can meet its present and future pulpwood requirements. 15¢.
- *1258 D. Farm organization and management in Clinton County, Indiana: A business analysis of 100 farms, in Forest and Johnson Townships, for eight years, 1910 and 1913 to 1919, inclusive. 10¢.
- *1269 D. Relation of land tenure to plantation organization. 15¢.
- *1271 D. A study of farm organization in southwestern Minnesota. 15¢.
- *1277 D. Input as related to output in farm organization and cost-of-production studies. 10¢.
- *1293 D. Tillage and rotation experiments at Dickinson, Hettinger, and Williston, N. Dak. 5¢.
- *1296 D. A study of farm organization in central Kansas. 15¢.
- 1338 D. The family living from the farm: Data from 30 farming localities in 21 States for the years 1918 to 1922. 5¢.
- *1388 D. Farm management problems on irrigated farms in hay and potato areas of the Yakima Valley, Wash. 15¢.
- *1430 D. Financial limitation in the employment of forest cover in protecting reservoirs. 15¢.
- *1458 D. The trend toward a more effective use of the land as shown by the yield per acre of certain crops. 5¢.

Department Circulars:

- 83 DC. Testing farms in the South for efficiency in management. 5¢.
- *302 DC. Farm management extension. Early development, and status in 1922. 5¢.
- *307 DC. A method of testing farm-management and cost-of-production data for validity of conclusions. 5¢.

Miscellaneous Circulars:

- *3 MC. The relation of agricultural education to farm organizations. 5¢.
- *32 MC. Practical farm economics. 40¢.

Technical Bulletins:

- *102 T. Types of farming in North Dakota. 15¢.
- *384 T. Utilization and cost of power on Corn Belt farms. 5¢.
- 439 T. Policies governing the ownership of return waters from irrigation. 5¢.
- *497 T. Utilization and cost of power on Mississippi and Arkansas Delta plantations. 5¢.

Yearbook Separates:

- *707 Y. An experiment in community dairying. 5¢.
- *736 Y. Teamwork between the farmer and his agent. 5¢.
- *925 Y. Farm management and costs, statistics. 10¢.
- 1413 Y. Farm business and related statistics. (1934.) 5¢.
- 1485 Y. Farm business and related statistics. (1935.) 5¢.

Maps:

- *Types of farming areas in the United States, 1930. 25¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

FARM MANAGEMENT: CROPS

Farmers' Bulletins:

- *312 F. A successful southern hay farm. 5¢.
- *546 F. How to manage a corn crop in Kentucky and West Virginia. 5¢.
- *773 F. Corn growing under droughty conditions. 5¢.
- 794 F. Citrus-fruit improvement: How to secure and use tree-performance records. 5¢.
- *800 F. Grains for the dry lands of central Oregon. 5¢.
- *883 F. Grains for the Utah dry lands. 5¢.
- 924 F. A simple way to increase crop yields. 5¢.
- *981 F. Farm practices that increase crop yields in Kentucky and Tennessee. 5¢.
- *986 F. Farm practices that increase crop yields in the Gulf Coast region. 5¢.
- *1000 F. Crop systems for Arkansas. 5¢.
- *1015 F. Producing family and farm supplies on the cotton farm. 5¢.
- *1021 F. Alfalfa on Corn-Belt farms. 5¢.
- *1047 F. Dry farming for better wheat yields. 5¢.
- 1071 F. Making woodlands profitable in the Southern States. 5¢.
- *1125 F. Forage for the Cotton Belt. 5¢.
- 1204 F. Northwestern apple packing houses. 5¢.
- 1250 F. Green manuring. 5¢.
- 1343 F. Culture of citrus fruits in the Gulf States. 5¢.
- 1475 F. Soil productivity as affected by crop rotation. 5¢.
- 1545 F. Dry-farming methods and practices in wheat growing in the Columbia and Snake River Basins. 5¢.
- 1562 F. Farm practices under corn-borer conditions. 5¢.
- 1574 F. Preparing Johnson hay for market in the Black Prairie Belt of Alabama and Mississippi. 5¢.
- *1603 F. Planting and care of shelter belts on the northern Great Plains. 5¢.
- 1653 F. Sweetclover in Corn Belt farming. 5¢.
- 1663 F. Winter legumes for green manure in the Cotton Belt. 5¢.
- 1681 F. Adjusting Corn Belt farming to meet corn-borer conditions. 5¢.
- 1715 F. Method and costs of husking corn in the field. 5¢.
- 1724 F. Farm practice with lespedeza. 5¢.
- 1725 F. Methods and costs of filling silos in the North Central States. 5¢.

Circulars:

- 258 C. Farmer opinions and other factors influencing cotton production and acreage adjustments in the South. 5¢.
- 404 C. The choice of crops for saline land. 5z.

Department Bulletins:

- *500 D. The cost of producing apples in western Colorado. 10¢.
- *625 D. Cropping systems for the moister portion of eastern Washington and Oregon and northern Idaho. 5¢.
- *641 D. Farm practice in the production of hay in Steuben County, N. Y., and Washington County, Pa. 5¢.
- *917 D. Farm practice in growing field crops in three sugar-beet districts of Colorado. 20¢.
- *1198 D. Cost of producing winter wheat in central Great Plains region of the United States. 10¢.
- *1202 D. Tractors and horses in the winter wheat belt, Oklahoma, Kansas, Nebraska. 10¢.
- *1446 D. Cost of producing winter wheat and incomes from wheat farming in Sherman County, Ore. 10¢.
- *1447 D. Cost of using horses, tractors, and combines on wheat farms in Sherman County, Ore. 10¢.
- *1455 D. Incomes from farming and cost of apple production in the Shenandoah Valley, Frederick County, Va. 10¢.
- *1467 D. Community production of Acala cotton in the Coachella Valley of California. 15¢.

Department Circulars:

- *183 DC. Seedtime and harvest: a graphic summary of seasonal work on farm crops. 15¢.

Miscellaneous Publications:

- 194 MP. A pasture handbook. 10¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Technical Bulletins:

- *54 T. Factors influencing the yield of apples in the Cumberland-Shenandoah region of Pennsylvania, Virginia, and West Virginia. 10¢.
- 287 T. Farm-management problems in shifting from sack to bulk handling of grain in the Pacific Northwest. 15¢.
- 324 T. An economic study of the pecan industry. 10¢.
- *330 T. Rotation and tillage experiments at the Lawton (Okla.) Field Station, 1917-1930. 5¢.
- *347 T. An economic study of broomcorn production. 5¢.
- *348 T. Use of the exponential yield curve in fertilizer experiments. 10¢.
- *367 T. The use of winter legumes in the Southeastern States. 5¢.
- *380 T. Sweetclover in Great Plains farming. 5¢.

Yearbook Separates:

- *846 Y. The cost of a bushel of wheat. 5¢.
- *896 Y. The utilization of our lands for crops, pasture, and forests. 15¢.

FARM MANAGEMENT: FINANCES

Farmers' Bulletins:

- 511 F. Farm bookkeeping. 5¢.
- 572 F. A system of farm cost accounting. 5¢.
- 782 F. The use of a diary for farm accounts. 5¢.
- 1139 F. A method of analyzing the farm business. 5¢.
- 1164 F. The farm lease contract. 5¢.
- 1182 F. Farm inventories. 5¢.
- 1564 F. Farm budgeting. 5¢.
- 1614 F. Business records for poultry keepers. 5¢.

Circulars:

- *54 C. Development and problems in farmers' mutual fire insurance. 5¢.

Department Bulletins:

- *811 D. A system of bookkeeping for grain elevators. 20¢.
- *865 D. A classification of ledger accounts for creameries. 10¢.
- *912 D. Hail insurance on farm crops in the United States. 10¢.
- *985 D. A system of accounting for cotton ginneries. 10¢.
- *1043 D. Crop insurance: Risks, losses, and principles of protection. 5¢.
- *1150 D. Accounting records and business methods for live-stock shipping associations. 10¢.
- *1382 D. The relation between the ability to pay and the standard of living among farmers. 5¢.
- *1400 D. Factors affecting farmers' earnings in southeastern Pennsylvania. 15¢.

Department Circulars:

- *77 DC. Suggestions for a State law providing for the organization of farmers' mutual fire insurance companies. 5¢.
- *197 DC. The credit association as an agency for rural short-time credit. 5¢.

Technical Bulletins:

- 172 T. Taxation of farm property. 15¢.
- 288 T. Farm-mortgage credit. 20¢.
- 521 T. Agricultural loans of commercial banks. 10¢.

Yearbook Separates:

- *658 Y. The cooperative purchase of farm supplies. 5¢.
- *697 Y. Farmers' mutual fire insurance. 5¢.
- *764 Y. Cattle loans and their value to investors. 5¢.
- *915 Y. Farm credit, farm insurance, and farm taxation. 15¢.
- *925 Y. Farm management and costs, statistics. 10¢.

FARM MANAGEMENT: LIVESTOCK

Farmers' Bulletins:

- *812 F. How livestock is handled in the bluegrass region of Kentucky. 5¢.
- *929 F. The place of sheep on New England farms. 5¢.
- *1051 F. Sheep on irrigated farms in the Northwest. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Farmers' Bulletins—Continued.

- *1428 F. Saving livestock from starvation on southwestern ranges. 5¢.
- 1546 F. Systems of livestock farming in the Black Prairie Belt of Alabama and Mississippi. 5¢.
- 1610 F. Dairy farming for beginners. 5¢.

Department Bulletins:

- *1381 D. Cost of producing hogs in Iowa and Illinois, years 1921-1922. 10¢.
- *1454 D. Factors in the cost of producing beef in the Flint Hills section of Kansas. 5¢.

Technical Bulletins:

- *23 T. Costs and methods of fattening beef cattle in the Corn Belt. 1919-1923. 20¢.
- *45 T. A study of ranch organization and methods of range-cattle production in the northern Great Plains region. 20¢.
- *68 T. Ranch organization and methods of livestock production in the Southwest. 25¢.
- *127 T. An economic study of livestock possibilities in the southeastern coastal plain. 20¢.
- *217 T. Beef production and quality as affected by grade of steer and feeding grain supplement on grass. 15¢.
- *237 T. Economic factors affecting the beef-cattle industry of Virginia. 10¢.
- *359 T. Farmers' response to price in hog production and marketing. 5¢.

FARM MANAGEMENT: TENANCY AND LABOR

Farmers' Bulletins:

- *614 F. A Corn-Belt farming system which saves harvest labor by hogging down crops. 5¢.
- *1042 F. Saving man labor in sugar-beet fields. 5¢.

Department Bulletins:

- *528 D. Seasonal distribution of farm labor in Chester County, Pa. 10¢.
- *961 D. Standards of labor on the hill farms of Louisiana. 10¢.
- *1020 D. Harvest labor problems in the wheat belt. 10¢.
- *1068 D. Farm ownership and tenancy in the Black Prairie of Texas. 10¢.
- *1181 D. Labor requirements of Arkansas crops. 15¢.
- *1211 D. Sources of supply and conditions of employment of harvest labor in the Wheat Belt. 5¢.
- *1220 D. Farm labor in Massachusetts, 1921. 5¢.
- *1230 D. Conditions affecting the demand for harvest labor in the Wheat Belt. 10¢.
- *1285 D. Truck-farm labor in New Jersey, 1922. 10¢.
- *1292 D. Field and crop labor on Georgia farms. (Coastal plain area.) 5¢.
- *1322 D. Some economic aspects of farm ownership. 5¢.
- *1404 D. Tenancy and ownership among negro farmers in Southampton County, Virginia. 5¢.
- *1432 D. The ownership of tenant farms in the United States. 10¢.
- *1433 D. The ownership of tenant farms in the North Central States. 10¢.

Department Circulars:

- *351 DC. Centralized management of a large corporate estate operated by tenants in the Wheat Belt. 10¢.

Technical Bulletins:

- *213 T. Perquisites and wages of hired farm laborers. 10¢.

Yearbook Separates:

- *789 Y. Housing the worker on the farm. 5¢.
- *897 Y. Farm ownership and tenancy. 15¢.

GRAIN FUTURES

Circulars:

- 151 C. Hedging in grain futures. 25¢.
- 201 C. Future trading and the cash grain markets. 15¢.
- 323 C. Trading-in privileges on the Chicago Board of Trade. 10¢.
- 397 C. Analysis of open commitments in wheat and corn futures on the Chicago Board of Trade, September 29, 1934. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

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Statistical Bulletins:

- 41 S. Wheat futures: Volume of trading, open commitments and prices from January 2, 1930, to December 31, 1932. 10¢.
 43 S. Corn futures: Volume of trading, open commitments and prices from January 2, 1930, to December 31, 1932. 10¢.

Technical Bulletins:

- *79 T. Major transactions in the 1926 December wheat future. 10¢.
 199 T. Trading in corn futures. 20¢.

LAND ECONOMICS**Farmers' Bulletins:**

- *592 F. Stock-watering places on western grazing lands. 5¢.
 *815 F. Organization, financing, and administration of drainage districts. 5¢.
 1088 F. Selecting a farm. 5¢.
 *1272 F. Renting dairy farms. 5¢.
 1733 F. Planning a subsistence homestead. 5¢.

Circulars:

- *15 C. The farm real estate situation, 1926-27. 10¢.
 *72 C. Financial settlements of defaulting irrigation enterprises. 10¢.
 *101 C. The farm real estate situation, 1928-29. 15¢.
 *150 C. The farm real estate situation, 1929-30. 10¢.
 160 C. Economic aspects of land settlement in the cut-over region of the Great Lakes States. 20¢.
 *209 C. The farm real estate situation, 1930-31. 15¢.
 *261 C. The farm real estate situation, 1931-32. 5¢.
 *309 C. The farm real estate situation, 1932-33. 10¢.
 354 C. The farm real estate situation, 1933-34. 5¢.
 382 C. The farm real estate situation, 1934-35. 5¢.
 417 C. The farm real estate situation, 1935-36. 10¢.

Department Bulletins:

- *181 D. A report on the methods and cost of reclaiming the overflowed lands along the Big Black River, Mississippi. 30¢.
 *198 D. A report upon the Cypress Creek drainage district, Desha and Chicot Counties, Arkansas. 40¢.
 *874 D. Farm land values in Iowa. 10¢.
 *1001 D. The relation of land tenure to the use of the arid grazing lands of the Southwestern States. 15¢.
 *1017 D. Report on drainage and prevention of overflow in the valley of the Red River of the North. 50¢.
 *1068 D. Farm ownership and tenancy in the Black Prairie of Texas. 10¢.
 *1224 D. Relation of land income to land value. 15¢.
 *1236 D. Farming the logged-off uplands in western Washington. 10¢.
 *1269 D. Relation of land tenure to plantation organization. 15¢.
 *1295 D. Land settlement and colonization in the Great Lakes States. 15¢.
 *1322 D. Some economic aspects of farm ownership. 5¢.
 *1404 D. Tenancy and ownership among negro families in Southampton County, Virginia. 5¢.
 1421 D. An economic study of irrigated farming in Twin Falls County, Idaho. 15¢.
 *1432 D. The ownership of tenant farms in the United States. 10¢.
 *1433 D. The ownership of tenant farms in the North Central States. 10¢.
 *1458 D. The trend toward a more effective use of the land as shown by the yield per acre of certain crops. 5¢.

Department Circulars:

- *377 DC. The farm real estate situation, 1926. 5¢.

Miscellaneous Circulars:

- *107 MC. Emergency methods for reconstitution of flooded sugar-cane districts in Louisiana. 5¢.

Miscellaneous Publications:

- *97 MP. Land utilization and the farm problem. 25¢.
 *103 MP. Summary of irrigation-district statutes of Western States. 20¢.

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Miscellaneous Publications—Continued.

- *105 MP. A graphic summary of American agriculture based largely on the census. 60¢.
- *172 MP. Bibliography on land settlement with particular reference to small holdings and subsistence homesteads. 50¢.

Technical Bulletins:

- *194 T. Economic status of drainage districts in the South in 1926. 10¢.
- *213 T. Perquisites and wages of hired farm laborers. 10¢.
- 289 T. Land utilization in Laurel County, Ky. 25¢.
- *301 T. The public domain of Nevada and factors affecting its use. 75¢.
- 303 T. Economic utilization of marginal lands in Nicholas and Webster Counties, West Virginia. 15¢.
- *327 T. Cost of pumping for drainage in the upper Mississippi Valley. 10¢.
- 357 T. State land-settlement problems and policies in the United States. 10¢.
- 469 T. A method of rural land classification. 5¢.

Yearbook Separates:

- *640 Y. The economy of farm drainage. 5¢.
- *771 Y. Arable land in the United States. 5¢.
- *896 Y. The utilization of our lands for crops, pasture, and forests. 15¢.
- *897 Y. Farm ownership and tenancy. 15¢.

National Land-Use Planning Publication:

- 6 NLPP. The problems of submarginal areas and desirable adjustments with particular reference to public acquisition of land. 5¢.

Unnumbered:

- Proceedings of the National Conference on Land Utilization, Chicago, Ill., November 19-21, 1931. 20¢.

Maps:

- *Value of farm lands and buildings per acre. 25¢.
- *Natural land-use areas of the United States. 50¢.

MARKETING (General)

(See also Department Organization: Laws—Rules—Regulations, and crop or animal concerned.)

Farmers Bulletins:

- *919 F. The application of dockage in the marketing of wheat. 5¢.
- *1050 F. Handling and loading southern new potatoes. 5¢.
- *1091 F. Protection of potatoes from cold in transit—lining and loading the cars. 5¢.
- *1145 F. The handling and transportation of cantaloupes. 5¢.
- 1204 F. Northwestern apple packing houses. 5¢.
- 1291 F. Preparation of fresh tomatoes for market. 5¢.
- 1308 F. Marketing the cowpea seed crop. 5¢.
- 1377 F. Marketing poultry. 5¢.
- 1378 F. Marketing eggs. 5¢.
- 1423 F. Preparation of cabbage for market. 5¢.
- 1457 F. Packing apples in boxes. 5¢.
- *1459 F. Selling black-walnut timber. 5¢.
- 1551 F. Marketing farm produce by parcel post. 5¢.
- 1558 F. Preparation of eastern grapes for market. 5¢.
- 1560 F. Preparing strawberries for market. 5¢.
- 1574 F. Preparing Johnson hay for market in the Black Prairie Belt of Alabama and Mississippi. 5¢.
- 1578 F. Marketing late-crop potatoes. 5¢.
- 1579 F. Containers used in shipping fruits and vegetables. 5¢.
- 1594 F. Preparation of bunched beets, carrots, and turnips for market. 5¢.
- 1694 F. Dressing and packing turkeys for market. 5¢.
- 1695 F. Preparing apples for market in barrels and baskets. 5¢.
- 1700 F. Marketing hay by modern methods. 5¢.
- 1702 F. Preparing peaches for market. 5¢.

Leaflets:

- 38 L. Maintaining the health of livestock in transit. 5¢.
- 67 L. Beef grading and stamping service. 5¢.
- 68 L. Roadside markets. 5¢.

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Leaflets—Continued.

- 73 L. Is the public market a good civic investment? 5¢.
 92 L. Preparing wool for market. 5¢.

Circulars:

- 8 C. National standards for farm products. 5¢.
 *16 C. Some economic aspects of the marketing of milk and cream in New England. 20¢.
 *24 C. United States grades, color standards, and packing requirements for honey. 5¢.
 *74 C. Chemical injury to watermelons in transit. 5¢.
 *90 C. Marketing fresh fruit in Europe. 25¢.
 91 C. Market supplies and prices of apples. 15¢.
 *103 C. Market classes and grades of dressed veal and calf carcasses. 25¢.
 110 C. Specific gravity and Baumé gravity tables for turpentine. 5¢.
 *127 C. Grain drying at a country elevator. 5¢.
 149 C. Marketing the commercial crop of early potatoes. 10¢.
 151 C. Hedging in grain futures. 25¢.
 161 C. Bulk and sack handling of grain in the Pacific Coast States. 10¢.
 *177 C. Control of botrytis rot of pears with chemically treated wrappers. 5¢.
 *199 C. Cream-standardization tables. 5¢.
 201 C. Future trading and the cash grain markets. 15¢.
 207 C. Deterioration of Christmas holly in transit and storage. 10¢.
 208 C. Market classes and grades of yearling beef. 20¢.
 *219 C. Market diseases of strawberries from the Southeastern States, 1926-1930. 5¢.
 *245 C. Spoilage of tomatoes in transit, as shown by inspection certificates, 1922 to 1930. 5¢.
 249 C. American tobacco types, uses, and markets. 20¢.
 250 C. American fruit and vegetable auctions. 5¢.
 253 C. Spoilage of stone fruits on the market. 5¢.
 278 C. The commercial storage of fruits, vegetables, and florists' stocks. 5¢.
 288 C. Market classes and grades of pork carcasses and fresh pork cuts. 10¢.
 *291 C. Freezing of greenhouse-grown tomatoes in transit. 15¢.
 *352 C. Packaging, curing, and merchandising American Cheddar cheese in cans. 5¢.
 *371 C. Development of phoma rot of tomatoes in transit and in storage. 5¢.
 383 C. Market classes and grades of lambs and sheep. 10¢.

Department Bulletins:

- *17 D. The refrigeration of dressed poultry in transit. 10¢.
 *48 D. The shrinkage of shelled corn while in cars in transit. 5¢.
 *168 D. Grades for commercial corn. 15¢.
 *206 D. The wool grower and the wool trade. 15¢.
 *215 D. Composition of corn (maize) meal manufactured by different processes and the influence of composition on the keeping qualities. 5¢.
 *267 D. Methods of wholesale distribution of fruits and vegetables on large markets. 5¢.
 *274 D. Factors governing the successful shipment of red raspberries from the Puyallup Valley. 10¢.
 *296 D. Our foreign trade in farm and forest products. 10¢.
 *298 D. Peach supply and distribution in 1914. 5¢.
 *374 D. The intrinsic values of grain, cottonseed, flour, and similar products, based on the dry-matter content. 5¢.
 *401 D. Marketing and distribution of western muskmelons in 1915. 15¢.
 *457 D. Relation between primary market prices and qualities of cotton. 5¢.
 *476 D. A study of cotton market conditions in North Carolina with a view to their improvement. 5¢.
 *510 D. Timber storage conditions in the Eastern and Southern States with reference to decay problems. 25¢.
 *549 D. Crossties purchased and treated in 1915. 5¢.
 *558 D. Marketing grain at country points. 5¢.
 *587 D. The handling and storage of apples in the Pacific Northwest. 15¢.

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Department Bulletins—Continued.

- *688 D. Marketing berries and cherries by parcel post. 5¢.
- *690 D. Marketing practices of Wisconsin and Minnesota creameries. 5¢.
- *709 D. Reports of storage holdings of certain food products. 10¢.
- *734 D. Nematode galls as a factor in the marketing and milling of wheat. 5¢.
- *744 D. Cooling milk and storing and shipping it at low temperatures. 10¢.
- *764 D. Factors influencing the carrying qualities of American export corn. 20¢.
- *775 D. Commercial preservation of eggs by cold storage. 10¢.
- *776 D. Cold storage reports, season 1917-1918. 10¢.
- *792 D. Reports of storage holdings of certain food products during 1918. 10¢.
- *858 D. Requirements and cost of producing market milk in northwestern Indiana. 5¢.
- *861 D. Marketing Eastern grapes. 10¢.
- *919 D. Unit requirements for producing milk in western Washington. 5¢.
- *923 D. Unit requirements for producing market milk in Vermont. 5¢.
- *955 D. Unit requirements for producing market milk in southeastern Louisiana. 5¢.
- *972 D. Unit requirements for producing market milk in eastern Nebraska. 5¢.
- *977 D. Marketing hay at country points. 5¢.
- *978 D. The weighing of market hay. 10¢.
- *979 D. Marketing hay through terminal markets. 10¢.
- *990 D. Preliminary manufacturing tests of the official cotton standards of the United States for color for upland tinged and stained cotton. 5¢.
- *1002 D. Open types of public markets. 5¢.
- *1009 D. Volume variation of bottled foods. 5¢.
- *1056 D. Marketing cotton seed for planting purposes. 5¢.
- *1083 D. Farm and terminal market prices. Wheat, corn, and oats, crop movement, year 1920-21. 10¢.
- *1086 D. Shrinkage of soft pork under commercial conditions. 10¢.
- *1101 D. Unit requirements for producing market milk in Delaware. 5¢.
- *1159 D. Coloring Satsuma oranges in Alabama. 5¢.
- *1187 D. Experimental milling and baking, including chemical determinations. 15¢.
- *1206 D. Marketing southern-grown sweet potatoes. 10¢.
- *1242 D. Marketing cabbage. 15¢.
- *1246 D. Market classes and grades of dressed beef. 25¢.
- *1253 D. Diseases of apples on the market. 5¢.
- *1283 D. Marketing and distribution of American-grown Bermuda onions. 10¢.
- *1290 D. Transportation of citrus fruit from Porto Rico. 5¢.
- 1344 D. Effect of various factors on the creaming ability of market milk. 5¢.
- *1353 D. The efficiency of a short-type refrigerator car. 5¢.
- *1360 D. Market classes and grades of livestock. 15¢.
- *1367 D. Coloring citrus fruit in Florida. 5¢.
- *1373 D. Dust control in grain elevators. 10¢.
- *1393 D. The granary weevil. 10¢.
- *1398 D. Comparative efficiency of wire-basket bunkers in refrigerator cars. 5¢.
- *1401 D. Marketing peanuts. 25¢.
- *1406 D. The ripening, storage, and handling of apples. 20¢.
- *1411 D. Expense factors in city distribution of perishables. 10¢.
- *1415 D. Marketing western boxed apples. 20¢.
- *1416 D. Marketing barreled apples. 20¢.
- 1440 D. Factors affecting the price of hogs. 15¢.
- *1441 D. Methods and practices of retailing meat. 10¢.
- *1442 D. Margins, expenses, and profits in retailing meat. 10¢.
- *1443 D. Consumer habits and preferences in the purchase and consumption of meat. 10¢.
- *1444 D. Cotton prices and markets. 15¢.
- *1460 D. Testing wheat for protein with a recommended method for making the test. 5¢.
- *1464 D. Market classes and grades of cattle. 25¢.
- 1470 D. Market classes and grades of dressed lamb and mutton, 15¢.
- *1488 D. Manufacturing tests of cotton of the white grades of the universal standards for American cotton. 10¢.

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Department Circulars:

- *64 DC. How lumber is graded. 5¢.
- *74 DC. How to break eggs for freezing. 5¢.
- *145 DC. Australia and New Zealand as markets for American fruit. 5¢.
- *146 DC. Markets for American fruits in China with recommendations for American shippers. 10¢.
- 278 DC. The commercial classification of American cotton. 10¢.
- 300 DC. Commercial cuts of meat. 5¢.
- *323 DC. How to collect, label, and pack living plant material for long-distance shipment. 5¢.
- *391 DC. Methods of packing eggs and of buffering and bracing cases of eggs in carload shipments. 5¢.
- *402 DC. Diseases of strawberries on the market. 5¢.
- *413 DC. Extent and causes of rejections of boxed apples from the State of Washington, seasons 1922 to 1925. 5¢.
- *415 DC. Some effects of freezing on onions. 5¢.
- *416 DC. Demand, marketing, and production of Oregon and Washington prunes. 10¢.

Miscellaneous Circulars:

- *35 MC. Bibliography on the marketing of agricultural products. 10¢.
- *41 MC. Estimating the quantity of grain in bins with chart reducing the necessary computations. 5¢.
- 51 MC. The farmer and the United States warehouse act. 5¢.
- *56 MC. Cleaning grain with the Bates aspirator. 10¢.
- 63 MC. The inspection stamp as a guide to wholesome meat. 5¢.
- *67 MC. The warehousemen and the United States warehouse act. 5¢.
- *74 MC. Grading up beef cattle at Sni-A-Bar Farms. 10¢.
- *83 MC. United States standard tobacco sizes. 10¢.

Miscellaneous Publications:

- 33 MP. Advantages of standards for livestock and meats. 5¢.
- *75 MP. Method of testing the capacity of fruit and vegetable containers under the United States standard container acts. 5¢.
- *107 MP. An explanation of American lumber standards. 5¢.
- *121 MP. Market diseases of fruits and vegetables: Tomatoes, peppers, eggplants. 20¢.
- *138 MP. Refrigeration in the handling, processing, and storing of milk and milk products. 10¢.
- 140 MP. Protein tests for wheat and oil tests for flaxseed and soybeans. 10¢.
- *150 MP. Bibliography on the marketing of agricultural products. 20¢.
- *161 MP. Testing milk and cream. 5¢.
- 173 MP. Proposed revised Federal grain standards. 10¢.
- 175 MP. Cotton bags as consumer packages for farm products. 5¢.
- *185 MP. Guide to the grading of structural timbers and the determination of working stresses. 5¢.
- 187 MP. Inspection of United States wheat exported through Canadian ports. 5¢.
- *189 MP. Synopsis of Federal plant quarantines affecting interstate shipments in effect January 1, 1934. 10¢.
- 222 MP. The direct marketing of hogs. 20¢.

Statistical Bulletins:

- *7 S. Shipments and unloads of certain fruits and vegetables, 1918-1923. 15¢.
- *8 S. Carload shipments of fruits and melons from stations in the United States for the calendar years 1920, 1921, 1922, and 1923. 10¢.
- *9 S. Carload shipments of vegetables from stations in the United States for the calendar years 1920, 1921, 1922, and 1923. 15¢.
- *14 S. Prices of farm products received by producers. 1. The North Atlantic States: Monthly prices through 1925, and other data, by States, with comparable data for earlier years. 20¢.
- *15 S. Prices of farm products received by producers. 2. The North Central States: Monthly prices through 1925, and other data, by States, with comparable data for earlier years. 30¢.

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Statistical Bulletins—Continued.

- *16 S. Prices of farm products received by producers. 3. South Atlantic and South Central States: Monthly prices through 1925, and other data, by States, with comparable data for earlier years. 35¢.
- *17 S. Prices of farm products received by producers. 4. Mountain and Pacific States: Monthly prices through 1925, and other data, by States, with comparable data for earlier years. 25¢.
- *19 S. Carload shipments of fruits and vegetables from stations in the United States for the calendar years 1924 and 1925. 15¢.
- *23 S. Car-lot shipments and unloads of important fruits and vegetables for the calendar years 1924-1926. 25¢.
- 30 S. Car-lot shipments and unloads of important fruits and vegetables for the calendar years 1927 and 1928. 25¢.
- 34 S. Corn futures: Volume of trading, open commitments and prices from January 3, 1921, to December 31, 1929. 35¢.
- 35 S. Car-lot shipments of fruits and vegetables from stations in the United States for the calendar years 1928 and 1929. 25¢.
- 38 S. Car-lot shipments and unloads of important fruits and vegetables for the calendar years 1929 and 1930. 15¢.
- *40 S. Grade, staple length, and tenderability of cotton in the United States 1928-1929 to 1931-1932. 10¢.
- 42 S. Car-lot shipments of fruits and vegetables from stations in the United States for the calendar years 1930 and 1931. 10¢.
- 45 S. Grade and staple length of cotton carried over in the United States as related to the domestic supply, 1928-1929 to 1931-1932. 5¢.
- 46 S. Car-lot shipments and unloads of important fruits and vegetables for the calendar years 1931 and 1932. 15¢.
- 47 S. Grade, staple length, and tenderability of cotton in the United States, 1928-29 to 1932-33. 10¢.
- *50 S. Car-lot shipments of fruits and vegetables from stations in the United States for the calendar years 1932 and 1933. 15¢.
- 52 S. Grade, staple length, and tenderability of cotton in the United States, 1928-29 to 1933-34. 10¢.

Technical Bulletins:

- *1 T. Tests of methods for the commercial standardization of raisins. 5¢.
- *6 T. Heat-damaged wheat. 10¢.
- *7 T. Origin and distribution of the commercial potato crop. 15¢.
- *13 T. Practices and costs of cotton-gin operation in north-central Texas, 1924-25. 15¢.
- *27 T. Freezing injury to potatoes. 10¢.
- *50 T. Factors affecting the price of cotton. 15¢.
- *62 T. Factors in the inception and development of fusarium rot in stored potatoes. 15¢.
- *69 T. Marketing American cotton in England. 20¢.
- *73 T. Some factors affecting the demand for milk and cream in the metropolitan area of New York. 15¢.
- *78 T. Marketing American cotton on the continent of Europe. 20¢.
- *95 T. The meal worms. 10¢.
- *100 T. Respiration of sorghum grains. 5¢.
- *107 T. Wholesale marketing of live poultry in New York City. 15¢.
- *115 T. Factors affecting the price of peaches in the New York City market. 15¢.
- *119 T. Influence of freezing of seed potatoes on viability and yield. 5¢.
- *124 T. Some factors affecting the marketing of wool in Australia, New Zealand, the Union of South Africa, England, and France. 25¢.
- *140 T. Investigations on the handling of Bartlett pears from Pacific coast districts. 10¢.
- 148 T. The frozen-pack method of preserving berries in the Pacific Northwest. 10¢.
- 153 T. Effect of milk-plant arrangement and methods of operation on labor requirements. 15¢.
- *154 T. A method for determining the color of agricultural products. 10¢.
- *180 T. Origin and distribution of the commercial strawberry crop. 25¢.

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Technical Bulletins—Continued.

- *193 T. Experiments on the processing and storing of Deglet Noor dates in California. 15¢.
- *197 T. Milling and baking qualities of world wheats. 35¢.
- 234 T. Marketing apples grown in the Cumberland-Shenandoah region of Pennsylvania, Virginia, and West Virginia. 10¢.
- 242 T. Biology of the Indian-meal moth on dried fruits in California. 5¢.
- 243 T. Transporting and handling milk in tanks. 10¢.
- *249 T. Some factors affecting the viscosity of cream. 25¢.
- 268 T. Effect of various temperatures on the storage and ripening of tomatoes. 15¢.
- *272 T. The marketing and distribution of fruits and vegetables by motor truck. 20¢.
- 290 T. Investigations on harvesting and handling fall and winter pears. 15¢.
- 297 T. Factors affecting the price of rice. 5¢.
- 311 T. Adequacy and reliability of crop-yield estimates. 10¢.
- 318 T. Effect of solid and gaseous carbon dioxide upon transit diseases of certain fruits and vegetables. 10¢.
- 359 T. Farmers' response to price in hog production and marketing. 5¢.
- 370 T. Bruising and freezing of apples in storage and transit. 15¢.
- 398 T. Origin, distribution, and market price of the commercial watermelon crop. 10¢.
- 423 T. Fluctuations in prices of cotton futures contracts. 5¢.
- 425 T. Marketing cantaloups and other muskmelons. 5¢.
- 434 T. Refrigerated transportation of Bartlett pears from the Pacific Northwest. 5¢.
- 445 T. Market distribution of car-lot shipments of fruits and vegetables in the United States. 5¢.
- 449 T. Storage of mill cane. 5¢.
- 450 T. Relation of maturity and handling of Bartlett pears in the Pacific Northwest to quality of the canned product. 5¢.
- 474 T. Marketing apples. 10¢.
- *475 T. Influence of storage temperature and humidity on keeping qualities of onions and onion sets. 5¢.
- 493 T. Farm prices of cotton related to its grade and staple length in the United States, seasons 1928-29 to 1932-33. 10¢.
- 505 T. Refrigeration of oranges in transit from California. 15¢.

Yearbook Separates:

- *591 Y. The handling of dressed poultry a thousand miles from the market. 15¢.
- *636 Y. Retail public markets. 5¢.
- *663 Y. How Hawaii helps her farmers to market their produce. 5¢.
- *726 Y. Rest rooms for women in marketing centers. 5¢.
- *766 Y. The farmer and Federal grain supervision. 5¢.
- *797 Y. How to use market stations. 5¢.
- *808 Y. Marketing and purchasing demonstrations in the South. 5¢.
- *809 Y. Federal supervision of live stock markets. 5¢.
- *860 Y. The farmers' interest in foreign markets. 5¢.
- *873 Y. Wheat production and marketing. 10¢.
- 930 Y. Marketing fruits and vegetables. 10¢.
- *1109 Y. Foreign trade of the United States in agricultural products. 10¢.
- *1154 Y. Foreign trade of the United States in agricultural products. (1931). 10¢.
- 1484 Y. Foreign trade of the United States in agricultural products. (1935). 5¢.

Unnumbered:

- Handbook of official United States standards for individual eggs. 5¢.
- Handbook of official standards for beans. 10¢.
- Handbook of official grain standards of the United States. 10¢.
- Handbook of official hay standards. 5¢.
- Handbook of official United States standards for soybeans. 5¢.
- *Instructions for the scaling and measurement of national forest timber. 15¢.

Posters:

- U. S. standard grades for eggs.
- We sell U. S. Government graded and stamped beef. (Hind quarter.)
- We sell U. S. Government graded and stamped beef. (Fore quarter.)
- We serve U. S. Government graded and stamped beef.

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Posters—Continued.

- U. S. Grades of slaughter cows.
- U. S. Grades of feeder steers.
- U. S. Grades of slaughter heifers.
- U. S. Grades of slaughter steers.
- U. S. Grades of slaughter lambs.
- *Color standards for grades of comb honey. 7 x 17 inches. 5¢.

Charts:

- *Four charts showing wholesale and retail cuts of beef, veal, lamb, and fresh pork. 50¢ per set.

MARKETING (Cooperative)**Circulars:**

- *10 C. Joint use of a sales organization by two cooperative associations. 10¢.
- 80 C. Organization and management problems of cooperative oil associations in Minnesota. 10¢.
- *86 C. A business analysis of the Producers Live Stock Commission Association of National Stock Yards, Ill. 10¢.
- *87 C. Problems in cooperation and experiences of farmers in marketing potatoes. 5¢.
- 94 C. Farmers' Cooperative Associations in the United States, 1929. 15¢.
- *100 C. Business analysis of the Tobacco Growers' Cooperative Association. 25¢.
- 111 C. An analysis of the business of the poultry producers of Central California. 10¢.
- 142 C. Analysis of the operations of a cooperative livestock concentration point. 10¢.
- *144 C. Farmers' experiences and opinions as factors influencing their cotton-marketing methods. 10¢.
- *240 C. What Ohio farmers think of farmer-owned business organizations in that state. 5¢.

Department Bulletins:

- *394 D. A survey of typical cooperative stores in the United States. 10¢.
- *547 D. Cooperative purchasing and marketing organizations among farmers in the United States. 10¢.
- *937 D. Cooperative grain marketing. A comparative study of methods in the United States and Canada. 5¢.
- *1095 D. Producers' cooperative milk-distributing plants. 10¢.
- *1150 D. Accounting records and business methods for live-stock shipping associations. 10¢.
- 1261 D. Operating methods and expense of cooperative citrus-fruit marketing agencies. 5¢.
- *1302 D. Development and present status of farmers' cooperative business organizations. 15¢.
- 1392 D. Cooperative marketing of cotton. 10¢.
- 1414 D. Management problems of cooperative associations marketing fruits and vegetables. 10¢.

Department Circulars:

- *197 DC. The credit association as an agency for rural short-time credit. 5¢.
- *351 DC. Centralized management of a large corporate estate operated by tenants in the Wheat Belt. 10¢.
- *397 DC. Farmers' cooperative business study: The staple cotton cooperative association. 10¢.
- 403 DC. Business set-up of a cooperative marketing association. 5¢.
- *407 DC. Membership relations of cooperative associations. (Cotton and tobacco.) 5¢.

Miscellaneous Circulars:

- *97 MC. Cooperation in agriculture: A selected and annotated reading list. 15¢.

Miscellaneous Publications:

- *14 MP. Pooling as practiced by cooperative marketing associations. 5¢.
- 37 MP. Essentials for the successful operation of a local creamery. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

30 MISCELLANEOUS PUBLICATION NO. 60

Technical Bulletins:

- *40 T. Agricultural cooperative associations, marketing and purchasing, 1925. 20¢.
- *57 T. Cooperative marketing of livestock in the United States by terminal associations. 25¢.
- *63 T. Cooperative marketing of grain in western Canada. 20¢.
- *82 T. Mutual irrigation companies. 10¢.
- 124 T. Some factors affecting the marketing of wool in Australia, New Zealand, the Union of South Africa, England, and France. 25¢.
- 179 T. Cooperative marketing of fluid milk. 20¢.
- 254 T. Irrigation districts, their organization, operation, and financing. 15¢.
- *322 T. Agricultural credit corporations affiliated with cotton cooperative marketing associations. 10¢.

Yearbook Separates:

- *637 Y. Cooperative marketing and financing of marketing association. 5¢.
- *658 Y. The cooperative purchase of farm supplies. 5¢.
- *699 Y. A federated cooperative cheese manufacturing and marketing association. 5¢.
- *736 Y. Teamwork between the farmer and his agent. 5¢.
- *772 Y. The thrashing ring in the Corn Belt. 5¢.

RURAL SOCIOLOGY

(See also Home Economics; Extension Work)

Farmers' Bulletins:

- *870 F. The community fair. 5¢.
- 1068 F. Judging beef cattle. 5¢.
- 1135 F. The beef calf: Its growth and development. 5¢.
- 1173 F. Plans of rural community buildings. 5¢.
- *1245 F. Farmers' telephone companies: Organization, financing and management. 5¢.
- 1325 F. Rural planning: The social aspects. 5¢.
- 1388 F. Rural planning: The social aspects of recreation places. 5¢.
- 1441 F. Rural planning: The village. 5¢.
- 1455 F. Fitting, showing, and judging hogs. 5¢.
- 1485 F. Rural hospitals. 5¢.
- 1492 F. Arbor Day: Its purpose and observance. 5¢.
- 1559 F. Rural libraries. 5¢.
- 1622 F. Rural buildings for business and social uses. 5¢.
- 1667 F. Rural community fire departments. 5¢.

Leaflets:

- 73 L. Is the public market a good civic investment? 5¢.

Circulars:

- 57 C. The rural church and cooperative extension work. 10¢.
- 312 C. Rural factory industries. 5¢.

Department Bulletins:

- *984 D. The national influence of a single farm community. 20¢.
- 1338 D. The family living from the farm: Data from 30 farming localities in 21 States for the years 1918 to 1922. 5¢.
- *1382 D. The relation between the ability to pay and the standard of living among farmers. 5¢.
- 1466 D. The farmers' standard of living. A socio-economic study of 2,886 white farm families of selected localities in 11 States. 10¢.

Department Circulars:

- *384 DC. How to conduct milk and cream contests. 5¢.

Miscellaneous Publications:

- 85 MP. Horticultural exhibitions. 10¢.
- 116 MP. Rural standards of living: A selected bibliography. 15¢.
- 146 MP. Milk-quality improvement program for 4-H dairy clubs. 5¢.
- 148 MP. A milk-quality improvement program for extension workers. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Miscellaneous Publications—Continued.

- *205 MP. Economic and social problems and conditions of the southern Appalachians. 50¢.
- *223 MP. Studies of family living in the United States and other countries: An analysis of material and method. 60¢.

Technical Bulletins:

- *386 T. Comparison of schedule and account methods of collecting data on family living. 5¢.

Yearbook Separates:

- *626 Y. The organization of rural interests. 5¢.
- *644 Y. The American farm woman as she sees herself. 5¢.
- *726 Y. Rest rooms for women in marketing centers. 5¢.
- *789 Y. Housing the worker on the farm. 5¢.
- *832 Y. Science seeks the farmer. 5¢.

Livestock Series—Better Sires Pictures:

1. Judging dairy cows at a community picnic.

STATISTICS

(See also Department Organization: Annual Reports and Yearbooks)

Department Bulletins:

- *987 D. Handbook of foreign agricultural statistics. 10¢.
- *1279 D. Rural highway mileage, income, and expenditures, 1921 and 1922. 15¢.
- *1348 D. An appraisal of power used on farms in the United States. 15¢.

Department Circulars:

- *70 DC. Trend of the butter industry in the United States and other countries: Simple charts with interpretations. 5¢.
- *71 DC. Trend of the cheese industry in the United States and other countries: Simple charts with interpretations. 5¢.
- *150 DC. Statistical data compiled and published by the Bureau of Crop Estimates, 1863-1920. 10¢.

Statistical Bulletins:

- *2 S. Seed statistics: Year ending May 31, 1923, with comparable data for earlier years. 15¢.
- *3 S. Sheep, lamb, mutton, and wool statistics: Year ended March 31, 1923, with comparable data for earlier years. 15¢.
- *4 S. Cold-storage holdings to October, 1924. 5¢.
- *5 S. Horses, mules, and motor vehicles: Year ended March 31, 1924, with comparable data for earlier years. 15¢.
- *6 S. Grain futures: Daily data, volume of trading on the Chicago Board of Trade, January 1, 1921, to May 31, 1924. 5¢.
- *7 S. Shipments and unloads of certain fruits and vegetables, 1918-1923. 15¢.
- *8 S. Carload shipments of fruits and melons from stations in the United States for the calendar years 1920, 1921, 1922, and 1923. 10¢.
- *9 S. Carload shipments of vegetables from stations in the United States for the calendar years 1920, 1921, 1922, and 1923. 15¢.
- *10 S. Statistics of potatoes and sweet potatoes: Year ended July 31, 1924, with comparable data for earlier years. 10¢.
- *11 S. Hay and feed statistics: Year ended December 31, 1924, with comparable data for earlier years. 15¢.
- *12 S. Wheat and rye statistics: Year ended December 31, 1924, with comparable data for earlier years. 15¢.
- *13 S. Cold-storage holdings: Year ended December 1925, with comparable data for earlier years. 10¢.
- *14 S. Prices of farm products received by producers. 1. The North Atlantic States: Monthly prices through 1925, and other data, by States, with comparable data for earlier years. 20¢.
- *15 S. Prices of farm products received by producers. 2. The North Central States: Monthly prices through 1925, and other data, by States, with comparable data for earlier years. 30¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Statistical Bulletins—Continued.

- *16 S. Prices of farm products received by producers. 3. South Atlantic and South Central States: Monthly prices through 1925, and other data, by States, with comparable data for earlier years. 35¢.
- *17 S. Prices of farm products received by producers. 4. Mountain and Pacific States: Monthly prices through 1925, and other data, by States, with comparable data for earlier years. 25¢.
- *18 S. Statistics of hogs, pork, and pork products, year ended December 31, 1925, with comparable data for earlier years. 30¢.
- *19 S. Carload shipments of fruits and vegetables from stations in the United States for the calendar years 1924 and 1925. 15¢.
- *20 S. Statistics of cattle, calves, beef, veal, hides, and skins, year ended December 31, 1925, with comparable data for earlier years. 40¢.
- *22 S. Vegetable statistics: Year ended December 31, 1926, with comparable data for earlier years. 35¢.
- *23 S. Car-lot shipments and unloads of important fruits and vegetables for the calendar years 1924-1926. 25¢.
- *24 S. Statistics of fats, oils, and oleaginous raw materials. 15¢.
- *25 S. Dairy statistics: Year ended December 31, 1926, with comparable data for earlier years. 35¢.
- *26 S. Cold-storage holdings: Year ended December 31, 1927, with comparable data for earlier years. 5¢.
- *28 S. Corn statistics: Year ended December 31, 1928, with comparable data for earlier years. 25¢.
- *29 S. Statistics of oats, barley, and grain sorghums: Year ended December 31, 1928, with comparable data for earlier years. 25¢.
- 30 S. Car-lot shipments and unloads of important fruits and vegetables for the calendar years 1927 and 1928. 25¢.
- *32 S. Stumpage and log prices for the calendar year 1928. 10¢.
- *33 S. Cold-storage holdings: Year ended December 31, 1929, with comparable data for earlier years. 10¢.
- 34 S. Corn futures: Volume of trading, open commitments and prices from January 3, 1921, to December 31, 1929. 35¢.
- 35 S. Car-lot shipments of fruits and vegetables from stations in the United States for the calendar years 1928 and 1929. 25¢.
- *36 S. Stumpage and log prices for the calendar year 1929. 15¢.
- *37 S. Stumpage and log prices for the calendar year 1930. 15¢.
- 38 S. Car-lot shipments and unloads of important fruits and vegetables for the calendar years 1929 and 1930. 15¢.
- *39 S. Cold-storage holdings: Year ended December 31, 1931, with comparable data for earlier years. 5¢.
- *40 S. Grade, staple length, and tenderability of cotton in the United States, 1928-1929 to 1931-1932. 10¢.
- 41 S. Wheat futures: Volume of trading, open commitments and prices from January 2, 1930, to December 31, 1932. 10¢.
- 42 S. Car-lot shipments of fruits and vegetables from stations in the United States for the calendar years 1930 and 1931. 10¢.
- 43 S. Corn futures: Volume of trading, open commitments and prices from January 2, 1930, to December 31, 1932. 10¢.
- *44 S. Stumpage and log prices for the calendar years 1931 and 1932. 10¢.
- 45 S. Grade and staple length of cotton carried over in the United States as related to the domestic supply, 1928-1929 to 1931-1932. 5¢.
- 46 S. Car-lot shipments and unloads of important fruits and vegetables, for the calendar years 1931 and 1932. 15¢.
- 47 S. Grade, staple length, and tenderability of cotton in the United States, 1928-29 to 1932-33. 10¢.
- 48 S. Cold-storage holdings: Year ended December 31, 1933, with comparable data for earlier years. 5¢.
- *49 S. Stumpage and log prices for the calendar year 1933. 10¢.
- *50 S. Car-lot shipments of fruits and vegetables from stations in the United States for the calendar years 1932 and 1933. 15¢.
- *51 S. Stumpage and log prices for the calendar year 1934. 10¢.
- 52 S. Grade, staple length, and tenderability of cotton in the United States, 1928-29 to 1933-34. 10¢.
- 53 S. Carlot shipments and unloads of nineteen important fruits and vegetables for the calendar years 1933 and 1934. 15¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Technical Bulletins:

- *96 T. Yields of barley in the United States and Canada, 1922-1926. 15¢.
 446 T. Yields of barley in the United States and Canada, 1927-1931. 10¢.

Yearbook Separates:

- *932 Y. Statistics of grains. 1927. 15¢.
 *933 Y. Statistics of fruits and vegetables. 1927. 10¢.
 *935 Y. Statistics of farm animals and animal products, 1927. 20¢.
 *1029 Y. Statistics of farm animals and animal products, 1928. 10¢.
 *1030 Y. Dairy and poultry statistics, 1928. 10¢.
 *1032 Y. Miscellaneous agricultural statistics, 1928. 10¢.
 *1102 Y. Prices of farm products graphically presented, 1930. 5¢.
 *1103 Y. Statistics of grains, 1930. 10¢.
 *1104 Y. Statistics of cotton, sugar, and tobacco, 1930. 5¢.
 *1105 Y. Statistics of fruits and vegetables, 1930. 5¢.
 *1106 Y. Statistics of miscellaneous crops, 1930. 10¢.
 *1107 Y. Statistics of cattle, hogs, sheep, horses, and mules, 1930. 15¢.
 *1108 Y. Dairy and poultry statistics. (1930). 10¢.
 *1110 Y. Miscellaneous agricultural statistics. (1930). 15¢.
 *1148 Y. Statistics of grains. (1931). 15¢.
 *1149 Y. Statistics of cotton, sugar, and tobacco. (1931). 10¢.
 *1150 Y. Statistics of fruits and vegetables. (1931). 15¢.
 *1151 Y. Statistics of miscellaneous crops. (1931). 10¢.
 *1152 Y. Statistics of cattle, hogs, sheep, horses, mules, asses, and honey. (1931). 15¢.
 *1153 Y. Dairy and poultry statistics. (1931). 10¢.
 *1155 Y. Farm business and related statistics. (1931). 10¢.
 *1156 Y. Miscellaneous agricultural statistics. (1931). 10¢.
 *1254 Y. Dairy and poultry statistics. (1932). 5¢.
 *1256 Y. Miscellaneous agricultural statistics. (1932). 5¢.
 *1257 Y. Farm business and related statistics. (1932). 5¢.
 *1258 Y. Miscellaneous agricultural statistics dealing with temperature, precipitation, and frost. (1932). 5¢.
 *1348 Y. Statistics of fruits and vegetables. (1933). 5¢.
 *1406 Y. Statistics of grains. (1934). 10¢.
 *1407 Y. Statistics of cotton, sugar, and tobacco. (1934). 5¢.
 *1408 Y. Statistics of fruits and vegetables. (1934). 5¢.
 *1409 Y. Statistics of miscellaneous crops. (1934). 5¢.
 *1410 Y. Statistics of beef cattle, hogs, sheep, horses, and mules. (1934). 5¢.
 *1411 Y. Dairy and poultry statistics. (1934). 5¢.
 *1413 Y. Farm business and related statistics. (1934). 5¢.
 *1414 Y. Miscellaneous agricultural statistics. (1934). 5¢.
 *1478 Y. Statistics of grains. (1935). 10¢.
 *1479 Y. Statistics of cotton, sugar, and tobacco. (1935). 10¢.
 *1480 Y. Statistics of fruits and vegetables. (1935). 10¢.
 *1481 Y. Statistics of miscellaneous crops. (1935). 5¢.
 *1482 Y. Statistics of beef cattle, hogs, sheep, horses, and mules. (1935). 5¢.
 *1483 Y. Dairy and poultry statistics. (1935). 5¢.
 *1485 Y. Farm business and related statistics. (1935). 5¢.
 *1486 Y. Miscellaneous agricultural statistics. 5¢.

Unnumbered:

- Handbook of dairy statistics, 1928. 15¢.
 Handbook of dairy statistics, 1933. 10¢.
 * Agricultural statistics, 1936. (Paper cover.) 50¢.
 Serving American agriculture. A report of extension work in agriculture and home economics in 1933. 10¢.

SUBSISTENCE FARMING

(Includes publications of interest to beginners in farming. *See also* Soil Surveys)

Farmers' Bulletins:

- 840 F. Farm sheep raising for beginners. 5¢.
 864 F. Practical information for beginners in irrigation. 5¢.
 1001 F. Growing fruit for home use. 5¢.
 *1015 F. Producing family and farm supplies on the cotton farm. 5¢.
 1044 F. The city home garden. 5¢.
 1082 F. Home supplies furnished by the farm. 5¢.
 1088 F. Selecting a farm. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Farmers' Bulletins—Continued.

- 1132 F. Planning the farmstead. 5¢.
- 1242 F. Permanent fruit and vegetable gardens. 5¢.
- 1342 F. Dairy-barn construction. 5¢.
- 1350 F. Beef-cattle barns. 5¢.
- 1419 F. Care and management of farm work horses. 5¢.
- 1437 F. Swine production. 5¢.
- 1460 F. Simple plumbing repairs in the home. 5¢.
- 1487 F. Practical hog houses. 5¢.
- 1592 F. Beef production on the farm. 5¢.
- 1610 F. Dairy farming for beginners. 5¢.
- 1660 F. The use of logs and poles in farm construction. 5¢.
- 1733 F. Planning a subsistence homestead. 5¢.
- 1738 F. Farmhouse plans. 10¢.
- 1746 F. Subsistence farm gardens. 5¢.
- 1749 F. Modernizing farmhouses. 10¢.
- 1751 F. Roof coverings for farm buildings and their repair. 5¢.
- 1756 F. Selection of lumber for farm and home building. 5¢.

Leaflets:

- 27 L. Recommendations to beginners in fur farming. 5¢.

Department Bulletins:

- 1338 D. The family living from the farm: Data from 30 farming localities in 21 States for the years 1918 to 1922. 5¢.

Department Circulars:

- 183 DC. Seedtime and harvest: A graphic summary of seasonal work on farm crops. 5¢.

Miscellaneous Publications:

- *172 MP. Bibliography on land settlement with particular reference to small holdings and subsistence homesteads. 50¢.

AGRICULTURE IN FOREIGN COUNTRIES**Circulars:**

- *47 C. Standardized cotton tare in Egypt. 5¢.
- *49 C. Culture and outdoor winter storage of persimmons in the vicinity of Peking, China. 5¢.
- *90 C. Marketing fresh fruit in Europe. 25¢.
- 168 C. Insects injurious to agriculture in Japan. 20¢.
- 176 C. Observations on the satin moth and its natural enemies in central Europe. 5¢.
- *266 C. The citrus insects of tropical Asia. 5¢.
- *289 C. Observations on the European corn borer and its major parasites in the orient. 5¢.

Department Bulletins:

- *182 D. Agricultural alcohol: Studies of its manufacture in Germany. 5¢.
- *271 D. Dates of Egypt and the Sudan. 20¢.
- *296 D. Our foreign trade in farm and forest products. 10¢.
- *987 D. Handbook of foreign agricultural statistics. 10¢.
- *1125 D. The Saida date of Egypt: A variety of the first rank adapted to commercial culture in the United States. 15¢.
- *1186 D. White-pine blister rust in western Europe. 10¢.
- *1234 D. Agricultural survey of Europe: The Danube Basin—Part 1. 15¢.
- *1266 D. Agricultural cooperation in Denmark. 15¢.
- *1385 D. The poultry and egg industry in Europe. 15¢.
- *1399 D. Agricultural survey of Europe: Germany. 20¢.
- *1409 D. Agricultural survey of South America: Argentina and Paraguay. 20¢.
- *1457 D. Date culture in Egypt and the Sudan. 25¢.

Department Circulars:

- *7 DC. Trend of the dairy-cattle industry in the United States and other countries. 5¢.
- *145 DC. Australia and New Zealand as markets for American fruit. 5¢.
- *146 DC. Markets for American fruits in China, with recommendations for American shippers. 10¢.
- *383 DC. The search in foreign countries for blight-resistant chestnuts and related tree crops. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Miscellaneous Publications:

- 187 MP. Inspection of United States wheat exported through Canadian ports. 5¢.
 *223 MP. Studies of family living in the United States and other countries: An analysis of material and method. 60¢.

Technical Bulletins:

- *15 T. The citrus insects of Japan. 5¢.
 *26 T. Our migrant shorebirds in southern South America. 5¢.
 *36 T. Further investigations of the parasites of *Popillia japonica* in the Far East. 5¢.
 *37 T. Agricultural survey of Europe: France. 25¢.
 *59 T. The European corn borer and its controlling factors in Europe. 10¢.
 *63 T. Cooperative marketing of grain in western Canada. 20¢.
 *65 T. Experimental tapping of Hevea rubber trees at Bayeux, Haiti, 1924-25. 5¢.
 *69 T. Marketing American cotton in England. 20¢.
 *78 T. Marketing American cotton on the continent of Europe. 20¢.
 *87 T. White-pine blister rust: A comparison of European with North American conditions. 15¢.
 *96 T. Yields of barley in the United States and Canada, 1922-1926. 15¢.
 *101 T. Agricultural survey of Europe: Switzerland. 15¢.
 124 T. Some factors affecting the marketing of wool in Australia, New Zealand, the Union of South Africa, England, and France. 25¢.
 *126 T. Agricultural survey of Europe: Danube Basin—Part 2, Rumania, Bulgaria, and Yugoslavia. 30¢.
 *135 T. The corn borer in central Europe: A review of investigations from 1924 to 1927. 20¢.
 *160 T. Agricultural survey of Europe: Hungary. 20¢.
 291 T. The effect of air drying on the hydrogen-ion concentration of the soils of the United States and Canada. 10¢.
 320 T. The citrus blackfly in Asia, and the importation of its natural enemies into tropical America. 10¢.
 363 T. The parasites of the sugarcane borer in Argentina and Peru, and their introduction into the United States. 5¢.
 446 T. Yields of barley in the United States and Canada, 1927-31. 10¢.
 451 T. Cotton production in Egypt. 5¢.
 455 T. The European corn borer and its controlling factors in the Orient. 5¢.
 466 T. Agriculture in southern Africa. 30¢.
 *535 T. Wheat requirements in Europe. (Especially pertaining to quality and type and to milling and baking practices.) 15¢.

Yearbook Separates:

- *860 Y. The farmers' interest in foreign markets. 5¢.
 *1109 Y. Foreign trade of the United States in agricultural products. 10¢.
 *1154 Y. Foreign trade of the United States in agricultural products. (1931). 10¢.
 1412 Y. Foreign trade of the United States in agricultural products. (1934). 5¢.
 1484 Y. Foreign trade of the United States in agricultural products. (1935). 5¢.

AGRICULTURAL AND HIGHWAY ENGINEERING BUILDINGS

Farmers' Bulletins:

- 744 F. The preservative treatment of farm timbers. 5¢.
 810 F. Equipment for farm sheep raising. 5¢.
 825 F. Pit silos. 5¢.
 *847 F. Potato storage and storage houses. 5¢.
 855 F. Homemade silos. 5¢.
 879 F. Home storage of vegetables. 5¢.
 1173 F. Plans of rural community buildings. 5¢.
 1204 F. Northwestern apple packing houses. 5¢.
 1214 F. Farm dairy houses. 5¢.
 1227 F. Sewage and sewerage of farm homes. 5¢.
 1267 F. Utilization of flue-heated tobacco barns for sweet-potato storage. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Farmers' Bulletins—Continued.

- 1279 F. Plain concrete for farm use. 5¢.
 1318 F. Greenhouse construction and heating. 5¢.
 1342 F. Dairy-barn construction. 5¢.
 1350 F. Beef-cattle barns. 5¢.
 1393 F. Principles of dairy-barn ventilation. 5¢.
 1426 F. Farm plumbing. 5¢.
 1442 F. Storage of sweet potatoes. 5¢.
 1452 F. Painting on the farm. 5¢.
 1456 F. Homes for birds. 5¢.
 1460 F. Simple plumbing repairs in the home. 5¢.
 1472 F. Preventing damage by termites or white ants. 5¢.
 1480 F. Small concrete construction on the farm. 5¢.
 1487 F. Practical hog houses. 5¢.
 1512 F. Protection of buildings and farm property from lightning. 5¢.
 1513 F. Convenient kitchens. 5¢.
 1554 F. Poultry houses and fixtures. 5¢.
 *1572 F. Making cellars dry. 5¢.
 1582 F. Protection of log cabins, rustic work, and unseasoned wood from injurious insects. 5¢.
 1590 F. Fire-protective construction on the farm. 5¢.
 1622 F. Rural buildings for business and social uses. 5¢.
 1636 F. Farm bulk storage for small grains. 5¢.
 1638 F. Rat proofing buildings and premises. 5¢.
 1649 F. Construction of chimneys and fireplaces. 5¢.
 1660 F. The use of logs and poles in farm construction. 5¢.
 1698 F. Heating the farm home. 5¢.
 1720 F. Adobe or sun-dried brick for farm buildings. 5¢.
 1738 F. Farmhouse plans. 10¢.
 1743 F. Hotbeds and coldframes. 5¢.
 1749 F. Modernizing farmhouses. 10¢.
 1751 F. Roof coverings for farm buildings and their repair. 5¢.
 1756 F. Selection of lumber for farm and home building. 5¢.

Leaflets:

- 56 L. Preventing cracks in new wood floors. 5¢.
 62 L. Why some wood surfaces hold paint longer than others. 5¢.
 77 L. Bracing farm buildings. 5¢.
 87 L. Wind-resistant construction for farm buildings. 5¢.
 101 L. Injury to buildings by termites. 5¢.

Circulars:

- 166 C. Suggestions for the improvement of old bank dairy barns. 10¢.
 214 C. Small plants for pasteurizing milk. 5¢.
 *239 C. Moisture content of wood in dwellings. 5¢.
 *254 C. Greenhouse heating. 5¢.

Department Bulletins:

- *333 D. Termites, or "white ants", in the United States: Their damage, and methods of prevention. 5¢.
 *801 D. Construction and fire protection of cotton warehouses. 50¢.

Department Circulars:

- *295 DC. Basic grading rules and working stresses for structural timbers. 5¢.

Miscellaneous Publications:

- 125 MP. Bibliography relating to farm structures. 10¢.
 *133 MP. Research in farm structures. 15¢.

Technical Bulletins:

- *187 T. Ventilation of farm barns. 25¢.
 *332 T. The bearing strength of wood under bolts. 5¢.

NOTE.—Plans for various kinds of typical farm structures and structural equipment, and mimeographed papers on certain phases of such construction, may be obtained from the Bureau of Agricultural Engineering, Department of Agriculture, Washington, D. C., upon request stating definitely the character of information desired.

COLD STORAGE**Farmers' Bulletins:**

- 1160 F. Diseases of apples in storage. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Circulars:

- *73 C. The cold storage of eggs and poultry. 15¢.
- 233 C. Effect of cold storage and age of seed on germination and yield of peanuts. 5¢.
- 278 C. The commercial storage of fruits, vegetables, and florists' stocks. 5¢.

Department Bulletins:

- *709 D. Reports of storage holdings of certain food products. 10¢.
- *775 D. Commercial preservation of eggs by cold storage. 10¢.
- *776 D. Cold storage reports, season 1917-1918. 10¢.
- *792 D. Reports of storage holdings of certain food products during 1918. 10¢.
- *1353 D. The efficiency of a short-type refrigerator car. 5¢.
- *1398 D. Comparative efficiency of wire-basket bunkers in refrigerator cars. 5¢.

Miscellaneous Publications:

- *138 MP. Refrigeration in the handling, processing, and storing of milk and milk products. 10¢.

Statistical Bulletins:

- *4 S. Cold-storage holdings to October, 1924. 5¢.
- *13 S. Cold-storage holdings: Year ended December 1925, with comparable data for earlier years. 10¢.
- *26 S. Cold-storage holdings: Year ended December 31, 1927, with comparable data for earlier years. 5¢.
- *33 S. Cold-storage holdings: Year ended December 31, 1929, with comparable data for earlier years. 10¢.
- *39 S. Cold-storage holdings: Year ended December 31, 1931, with comparable data for earlier years. 5¢.
- 48 S. Cold-storage holdings: Year ended December 31, 1933, with comparable data for earlier years. 5¢.

Technical Bulletins:

- *117 T. Comparative influence of different storage temperatures on weight losses and vitality of seed potatoes. 5¢.
- *475 T. Influence of storage temperature and humidity on keeping qualities of onions and onion sets. 5¢.
- 505 T. Refrigeration of oranges in transit from California. 15¢.

FARM AND HOUSEHOLD ENGINEERING**Farmers' Bulletins:**

- *592 F. Stock-watering places on western grazing lands. 5¢.
- 1078 F. Harvesting and storing ice on the farm. 5¢.
- 1227 F. Sewage and sewerage of farm homes. 5¢.
- 1234 F. Gullies: How to control and reclaim them. 5¢.
- 1279 F. Plain concrete for farm use. 5¢.
- 1318 F. Greenhouse construction and heating. 5¢.
- 1393 F. Principles of dairy-barn ventilation. 5¢.
- 1426 F. Farm plumbing. 5¢.
- 1448 F. Farmstead water supply. 5¢.
- 1460 F. Simple plumbing repairs in the home. 5¢.
- 1480 F. Small concrete construction on the farm. 5¢.
- *1572 F. Making cellars dry. 5¢.
- 1649 F. Construction of chimneys and fireplaces. 5¢.
- 1660 F. The use of logs and poles in farm construction. 5¢.
- 1669 F. Farm terracing. 5¢.
- 1698 F. Heating the farm home. 5¢.
- 1737 F. Stop Gullies: Save your farm. 5¢.
- 1751 F. Roof coverings for farm buildings and their repair. 5¢.
- 1756 F. Selection of lumber for farm and home building. 5¢.

Leaflets:

- 120 L. Excluding birds from reservoirs and fish ponds. 5¢.

Circulars:

- *254 C. Greenhouse heating. 5¢.
- *285 C. Portable refrigeration chambers for studying cold resistance of plants in the field. 5¢.
- *393 C. Care and maintenance of cotton-gin saws and ribs. 5¢.

Department Bulletins:

- *379 D. Dust explosions and fires in grain separators in the Pacific Northwest. 10¢.
- 997 D. The cost and utilization of power on farms where tractors are owned. 10¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Department Bulletins—Continued.

- *1098 D. Impounding water in a bayou to control breeding of malaria mosquitoes. 15¢.
- *1203 D. Experimental production of straw gas. 5¢.

Miscellaneous Publications:

- *165 MP. The barrier system for control of floods in mountain streams. 5¢.
- *204 MP. Rainfall intensity-frequency data. 10¢.

Technical Bulletins:

- *205 T. Gluing wood in aircraft manufacture. 25¢.
- *332 T. The bearing strength of wood under bolts. 5¢.
- *384 T. Utilization and cost of power on Corn Belt farms. 5¢.
- *443 T. Application of steam in the sterilization of soils. 5¢.

NOTE.—Plans for various kinds of typical farm structures and structural equipment, and mimeographed papers on certain phases of such construction, may be obtained from the Bureau of Agricultural Engineering, Department of Agriculture, Washington, D. C., upon request stating definitely the character of information desired.

IRRIGATION AND DRAINAGE**Farmers' Bulletins:**

- *673 F. Irrigation practice in rice growing. 5¢.
- 805 F. The drainage of irrigated farms. 5¢.
- *815 F. Organization, financing, and administration of drainage districts. 5¢.
- 864 F. Practical information for beginners in irrigation. 5¢.
- *1131 F. Tile-trenching machinery. 5¢.
- 1243 F. The border method of irrigation. 5¢.
- 1348 F. The corrugation method of irrigation. 5¢.
- 1404 F. Pumping from wells for irrigation. 5¢.
- 1518 F. Orchard irrigation. 5¢.
- 1526 F. Clearing land of brush and stumps. 5¢.
- 1529 F. Spray irrigation in the Eastern States. 5¢.
- 1556 F. Irrigation of small grain. 5¢.
- 1606 F. Farm drainage. 5¢.
- 1630 F. Irrigation practices in growing alfalfa. 5¢.
- 1635 F. Surface irrigation in the Eastern States. 5¢.
- 1658 F. Farm water power. 5¢.
- 1683 F. Measuring water in irrigation channels. 5¢.
- 1703 F. Reservoirs for farm use. 5¢.

Circulars:

- *38 C. An apparatus for adding gypsum to irrigation water. 5¢.
- *72 C. Financial settlements of defaulting irrigation enterprises. 10¢.
- *188 C. Irrigated crop rotations in western South Dakota. 10¢.
- 195 C. Tests of spray irrigation equipment. 10¢.
- *200 C. Irrigation and related cultural practices with cotton in the Salt River Valley of Arizona. 10¢.
- 232 C. Measuring the salinity of irrigation waters and of soil solutions with the Wheatstone bridge. 5¢.

Department Bulletins:

- *181 D. A report on the methods and costs of reclaiming the overflowed lands along the Big Black River, Miss. 30¢.
- *198 D. A report upon the Cypress Creek drainage district, Desha and Chicot Counties, Ark. 40¢.
- *376 D. The flow of water in wood-stave pipe. 25¢.
- *462 D. Irrigation in Florida. 15¢.
- *546 D. Effect of fall irrigation on crop yields at Belle Fourche, S. Dak. 5¢.
- *724 D. Drainage methods and foundations for county roads. 20¢.
- *831 D. Spillways for reservoirs and canals. 25¢.
- *852 D. The flow of water in concrete pipe. 25¢.
- *1017 D. Report on drainage and prevention of overflow in the valley of the Red River of the North. 50¢.
- *1026 D. Irrigation in northern Colorado. 25¢.
- *1110 D. The farmer's short-box measuring flume. 5¢.
- *1340 D. Irrigation requirements of the arable lands of the Great Basin. 10¢.
- *1348 D. An appraisal of power used on farms in the United States. 15¢.

For information in obtaining publications free and for sale, see p. 2 How to Order.

*For sale only.

Department Bulletins—Continued.

- *1388 D. Farm management problems on irrigated farms in hay and potato areas of the Yakima Valley, Wash. 15¢.
- *1421 D. An economic study of irrigated farming in Twin Falls County, Idaho. 15¢.
- *1430 D. Financial limitation in the employment of forest cover in protecting reservoirs. 15¢.
- *1456 D. Drainage by means of pumping from wells in Salt River Valley, Ariz. 10¢.

Miscellaneous Publications:

- *103 MP. Summary of irrigation-district statutes of Western States. 20¢.
- *157 MP. Power and machinery in agriculture. 5¢.
- *204 MP. Rainfall intensity-frequency data. 10¢.

Technical Bulletins:

- *2 T. Irrigated crop rotations in western Nebraska. 5¢.
- *36 T. Irrigation requirements of the arid and semiarid lands of the Missouri and Arkansas River basins. 20¢.
- *72 T. Irrigation of cotton. 10¢.
- *82 T. Mutual irrigation companies. 10¢.
- 118 T. Studies in time and rate of irrigating potatoes in Colorado. 5¢.
- *129 T. Flow of water in drainage channels. The results of experiments to determine the roughness coefficient n in Kutter's formula. 40¢.
- *144 T. Irrigated crop rotations in southern Montana. 10¢.
- *150 T. The flow of water in riveted steel and analogous pipes. 30¢.
- *177 T. Commercial irrigation companies. 10¢.
- *184 T. Erosion and silting of dredged drainage ditches. 25¢.
- *185 T. Irrigation requirements of the arid and semiarid lands of the Southwest. 15¢.
- *194 T. Economic status of drainage districts in the South in 1926. 10¢.
- *200 T. Irrigation requirements of the arid and semiarid lands of the Columbia River Basin. 15¢.
- 216 T. Effect of irrigation water on vigor and vitality of seed potatoes. 5¢.
- 254 T. Irrigation districts, their organization, operation, and financing. 15¢.
- *264 T. Boron in irrigation waters. 20¢.
- 269 T. Economical use of large tile for land drainage. 5¢.
- *271 T. Evaporation from free water surfaces. 20¢.
- *327 T. Cost of pumping for drainage in the upper Mississippi Valley. 10¢.
- *379 T. Irrigation requirements of the arid and semiarid lands of the Pacific slope basins. 10¢.
- *382 T. The silt load of Texas streams. 10¢.
- *390 T. Design and operation of drainage pumping plants in the Upper Mississippi Valley. 10¢.
- *393 T. The flow of water in flumes. 15¢.
- 429 T. Pile trestles as channel obstructions. 10¢.
- 432 T. Studies of the irrigation of pear orchards on heavy soil near Medford, Oreg. 5¢.
- 439 T. Policies governing the ownership of return waters from irrigation. 5¢.
- 442 T. Bridge piers as channel obstructions. 10¢.
- *491 T. Soil moisture and irrigation investigations in eastern apple orchards. 5¢.
- *497 T. Utilization and cost of power on Mississippi and Arkansas Delta plantations. 5¢.
- 512 T. Irrigated crop rotations in western Nebraska. 5¢.
- 524 T. Silting of reservoirs. 40¢.

Yearbook Separates:

- *640 Y. The economy of farm drainage. 5¢.
- *771 Y. Arable land in the United States. 5¢.

Office of Experiment Stations Bulletins:

- *240 Tidal marshes and their reclamation. 35¢.
- Note.—Plans for various kinds of typical farm structures and structural equipment, and mimeographed papers on certain phases of such construction, may be obtained from the Bureau of Agricultural Engineering, Department of Agriculture, Washington, D. C., upon request stating definitely the character of information desired.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

MACHINERY AND EQUIPMENT

(Farm, factory, laboratory, etc.)

Farmers' Bulletins:

- *734 F. Flytraps and their operation. 5¢.
- 744 F. The preservative treatment of farm timbers. 5¢.
- 810 F. Equipment for farm sheep raising. 5¢.
- 825 F. Pit silos. 5¢.
- *847 F. Potato storage and storage houses. 5¢.
- 855 F. Home-made silos. 5¢.
- 879 F. Home storage of vegetables. 5¢.
- *927 F. Farm home conveniences. 5¢.
- 948 F. The rag-doll seed tester: Its use in determining what ears of corn are fit for seed. 5¢.
- *977 F. Hay caps. 5¢.
- *1042 F. Saving man labor in sugar-beet fields. 5¢.
- *1091 F. Protection of potatoes from cold in transit—lining and loading the cars. 5¢.
- *1131 F. Tile-trenching machinery. 5¢.
- 1157 F. Waterproofing and mildewproofing of cotton duck. 5¢.
- 1285 F. Lime-sulphur concentrate: Preparation, uses, and designs for plants. 5¢.
- *1290 F. The bulk handling of grain. 5¢.
- *1295 F. What tractors and horses do on Corn-Belt farms. 5¢.
- *1296 F. Changes effected by tractors on Corn-Belt farms. 5¢.
- *1297 F. Cost of using tractors on Corn-Belt farms. 5¢.
- *1299 F. Shall I buy a tractor? (For a Corn-Belt farm.) 5¢.
- *1300 F. Choosing a tractor. (For a Corn-Belt farm.) 5¢.
- *1314 F. Motor trucks on Corn-Belt farms. 5¢.
- 1315 F. Cleaning milking machines. 5¢.
- 1404 F. Pumping from wells for irrigation. 5¢.
- 1490 F. Hog-lot equipment. 5¢.
- 1512 F. Protection of buildings and farm property from lightning. 5¢.
- 1525 F. Effective haying equipment and practices for northern Great Plains and inter-mountain regions. 5¢.
- *1542 F. Cleaning grain on farms and in country elevators. 5¢.
- *1565 F. Shall I buy a combine? 5¢.
- 1579 F. Containers used in shipping fruits and vegetables. 5¢.
- *1584 F. Feed-lot and ranch equipment for beef cattle. 5¢.
- 1589 F. The husker-shredder on eastern Corn Belt farms. 5¢.
- *1608 F. The operation and care of the combined harvester-thresher. 5¢.
- 1615 F. Hay stackers and their use. 5¢.
- 1662 F. Husker-shredders in corn-borer control. 5¢.
- 1675 F. Care of milk utensils on the farm. 5¢.
- 1678 F. Safe use and storage of gasoline and kerosene on the farm. 5¢.
- 1690 F. Plowing with moldboard plows. 5¢.
- 1701 F. Corncribs for the Corn Belt. 5¢.
- 1715 F. Methods and costs of husking corn in the field. 5¢.
- 1725 F. Methods and costs of filling silos in the North Central States. 5¢.
- 1729 F. Machinery for dusting cotton. 5¢.
- 1743 F. Hotbeds and coldframes. 5¢.
- 1748 F. Ginning cotton. 5¢.
- 1754 F. Care and repair of mowers and binders. 5¢.

Leaflets:

- 97 L. Cross-blocking sugar beets by machine. 5¢.
- 107 L. The barrel seed scarifier. 5¢.

Circulars:

- *9 C. The Bates laboratory aspirator. 5¢.
- *38 C. An apparatus for adding gypsum to irrigation water. 5¢.
- *48 C. Improved apparatus and method for making "shellings" of rough rice. 10¢.
- *53 C. A seed counter. 5¢.
- *77 C. Suggestions for paper mulch trials. 5¢.
- 99 C. Equipment for city milk plants. 5¢.
- *119 C. Relation of dust fungicides to flow of small grains through drills and to drill injury. 5¢.
- *123 C. A comparative study of dusting by means of airplane and ground machine for the control of the blueberry maggot. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Circulars—Continued.

- *130 C. Traps for the Japanese beetle. 5¢.
- *132 C. Fighting the corn borer with machinery in the two-generation area. 15¢.
- *136 C. The Gehl laboratory rice-scouring device. 5¢.
- 155 C. The ice well for the dairy farm. 5¢.
- 164 C. An apparatus for determining the tenderness of certain canned fruits and vegetables. 5¢.
- 192 C. Progress report on mechanical application of fertilizers to cotton in South Carolina, 1930. 10¢.
- 195 C. Tests of spray irrigation equipment. 10¢.
- 204 C. An air-pressure extension brush for applying creosote to gipsy moth egg clusters. 5¢.
- 214 C. Small plants for pasteurizing milk. 5¢.
- 232 C. Measuring the salinity of irrigation waters and of soil solutions with the Wheatstone bridge. 5¢.
- *236 C. Design factors affecting the strength and rigidity of wooden crates. 5¢.
- 247 C. A box-type trap to aid in the control of eye gnats and blowflies. 5¢.
- *264 C. Mechanical application of fertilizers to cotton in South Carolina, 1931. 5¢.
- *285 C. Portable refrigeration chambers for studying cold resistance of plants in the field. 5¢.
- 316 C. Agronomic evaluation tests on mechanical blocking and cross cultivation of sugar beets. 5¢.
- 321 C. Use of farm machinery for corn-borer control in the one-generation area. 5¢.
- 335 C. Distillate burners. 5¢.
- 336 C. Cooling milk on the farm with small mechanical outfits. 5¢.
- 345 C. Barrel and disk seed scarifiers. 5¢.
- *360 C. A device for separating different lengths of fibers from seed cotton. 5¢.
- *376 C. New equipment for obtaining host material for the mass production of *Trichogramma minutum*, an egg parasite of various insect pests. 5¢.
- 399 C. Machine placement of fertilizers for snap beans in Florida. 5¢.

Department Bulletins:

- 574 D. The conversion of the weights of mechanical separations of corn, wheat, and other grains into percentages. 5¢.
- *681 D. Grain-dust explosions: Investigation in the experimental attrition mill at the Pennsylvania State College. 10¢.
- *747 D. The economical use of fuel in milk plants and creameries. 10¢.
- *857 D. A modified Boerner sampler. 5¢.
- *894 D. Manual of design and installation of Forest Service water spray dry kiln. 10¢.
- *931 D. Corn-Belt farmers' experience with motor trucks. 10¢.
- *997 D. The cost and utilization of power on farms where tractors are owned. 10¢.
- *1065 D. The test weight of grain: A simple method of determining the accuracy of the testing apparatus. 5¢.
- *1110 D. The farmer's short-box measuring flume. 5¢.
- *1202 D. Tractors and horses in the winter wheat belt, Oklahoma, Kansas, Nebraska. 10¢.
- 1375 D. The Brown-Duvel moisture tester and how to operate it. 10¢.
- *1447 D. Cost of using horses, tractors, and combines on wheat farms in Sherman County, Oreg. 10¢.

Department Circulars:

- *46 DC. How to make a hog crate. 5¢.
- *98 DC. The installation of dust-collecting fans on threshing machines for the prevention of explosions and fires and for grain cleaning. 5¢.
- *205 DC. Cotton-seed mixing increased by modern gin equipment. 5¢.
- *212 DC. The manufacture and sale of farm equipment in 1920. 5¢.
- *222 DC. The insulating value of commercial double-walled beehives. 5¢.
- *310 DC. The solar propagating frame for rooting citrus and other subtropical plants. 5¢.
- *371 DC. Use of the camera in studying the growth and development of dairy animals. 10¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Department Circulars—Continued.

- *381 DC. Uniform-depth press-wheel cotton-planter attachment. 5¢.
- 405 DC. The domestic oil burner. 10¢.
- 423 DC. The use of the electrolytic bridge for determining soluble salts. 5¢.

Miscellaneous Circulars:

- *56 MC. Cleaning grain with the Bates aspirator. 10¢.

Miscellaneous Publications:

- *38 MP. Research in mechanical farm equipment. 10¢.
- *56 MP. Low-cutting devices for harvesting corn. 15¢.
- *75 MP. Method of testing the capacity of fruit and vegetable containers under the United States standard container acts. 5¢.
- *138 MP. Refrigeration in the handling, processing, and storing of milk and milk products. 10¢.
- 142 MP. Construction of sled-type cornstalk shavers. 5¢.
- 149 MP. The vertical seed-cotton drier. 5¢.
- *157 MP. Power and machinery in agriculture. 5¢.
- 201 MP. Traps for the Japanese beetle and how to use them. 5¢.
- 212 MP. A low-cutting sled corn cutter. 5¢.
- *239 MP. The vertical drier for seed cotton. 5¢.

Statistical Bulletins:

- *5 S. Horses, mules, and motor vehicles: Year ended March 31, 1924, with comparable data for earlier years. 15¢.

Technical Bulletins:

- *70 T. The combined harvester-thresher in the Great Plains. 15¢.
- *74 T. The value of inert gas as a preventive of dust explosions in grinding equipment. 5¢.
- *75 T. Crop-plant stimulation with paper mulch. 10¢.
- 244 T. Harvesting small grain, soybeans, and clover in the Corn Belt with combines and binders. 15¢.
- 265 T. Electrical equipment on movable bridges. 35¢.
- 269 T. Economical use of large tile for land drainage. 5¢.
- 280 T. Effect of plant arrangement, equipment, and methods of operation in relation to breakage of bottles in milk plants. 10¢.
- *390 T. Design and operation of drainage pumping plants in the Upper Mississippi Valley. 10¢.
- *490 T. Explosibility of agricultural and other dusts as indicated by maximum pressure and rates of pressure rise. 5¢.
- *497 T. Utilization and cost of power on Mississippi and Arkansas Delta plantations. 5¢.
- *503 T. Effects of gin-saw speed and seed-roll density on quality of cotton lint and operation of gin stands. 10¢.

Yearbook Separates:

- *635 Y. Story of the thermometer and its uses in agriculture. 5¢.

NOTE.—Plans for various kinds of typical farm structures and structural equipment, and mimeographed papers on certain phases of such construction, may be obtained from the Bureau of Agricultural Engineering, Department of Agriculture, Washington, D. C., upon request stating definitely the character of information desired.

ROADS AND BRIDGES**Circulars:**

- *380 C. Erosion control on mountain roads. 10¢.

Department Bulletins:

- *1279 D. Rural highway mileage, income and expenditures, 1921 and 1922. 15¢.

Miscellaneous Publications:

- *76 MP. The results of physical tests of road-building rock. 25¢.
- 184 MP. Analysis of a rigid frame concrete arch bridge. 5¢.
- *191 MP. Roadside improvement. 10¢.

Technical Bulletins:

- *55 T. Highway bridge surveys. 20¢.
- 265 T. Electrical equipment on movable bridges. 35¢.
- 442 T. Bridge piers as channel obstructions. 10¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Yearbook Separates:

- *849 Y. Roads. 5¢.

Unnumbered:

- *An economic and statistical analysis of highway construction expenditures. 15¢.
 Drive safely.
 *Engineering field tables. 75¢.
 *Forest trail handbook. 15¢.
 *Report of a survey of transportation on the Federal-aid highway systems of eleven Western States, 1930. \$1.00.
 *The taxation of motor vehicles in 1932. 35¢.
 *Highway bond calculations. 10¢.

Maps:

- *Desk-size map showing the numbered system of United States highways. 15¢.
 *Progress maps showing the status of improvements of the Federal-aid highway system in the 48 States. 114 sheets at 10¢ per sheet.
 *Transportation maps showing the highway, water, rail, and air routes in the 48 States, now in preparation. Maps now available are as follows: Iowa 8 sheets, Florida 12 sheets, Maine 6 sheets, New Hampshire 2 sheets, and Vermont 2 sheets. The price of the maps is 20¢ per sheet.

ANIMAL INDUSTRIES**LIVESTOCK**

(See also specific animal)

Farmers' Bulletins:

- 578 F. The making and feeding of silage. 5¢.
 *592 F. Stock-watering places on western grazing lands. 5¢.
 724 F. The feeding of grain sorghums to livestock. 5¢.
 *812 F. How livestock is handled in the bluegrass region of Kentucky. 5¢.
 954 F. The disinfection of stables. 5¢.
 1167 F. Essentials of animal breeding. 5¢.
 1179 F. Feeding cottonseed products to livestock. 5¢.
 *1428 F. Saving livestock from starvation on southwestern ranges. 5¢.
 1546 F. Systems of livestock farming in the Black Prairie Belt of Alabama and Mississippi. 5¢.
 1699 F. Growing root crops for livestock. 5¢.
 1721 F. Determining the age of farm animals by their teeth. 5¢.
 1753 F. Livestock for small farms. 5¢.

Leaflets:

- 1 L. Ways to save young livestock. 5¢.

Circulars:

- 32 C. The regional lymph glands of food animals. 10¢.
 140 C. Handling livestock during drought. 5¢.
 183 C. Factors for converting percentages of nitrogen in foods and feeds into percentages of proteins. 5¢.

Department Bulletins:

- *741 D. Effect of grazing upon aspen reproduction. 10¢.
 790 D. Range management on the national forests. 35¢.
 905 D. Principles of livestock breeding. 10¢.

Department Circulars:

- 235 DC. Utility value of purebred livestock. 10¢.
 *379 DC. The use of salt in range management. 10¢.

Miscellaneous Circulars:

- 12 MC. A handbook for better feeding of livestock. 10¢.
 *33 MC. Some tested methods for livestock improvement. 5¢.

Miscellaneous Publications:

- *28 MP. The livestock review for 1927. 10¢.
 *54 MP. The livestock review for 1928. 10¢.
 81 MP. Recommendations of the Bureau of Animal Industry on problems of livestock production. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Miscellaneous Publications—Continued.

- 96 MP. Feeding wheat to livestock. 5¢.
 132 MP. Rice and its by-products for feeding livestock. 5¢.
 171 MP. The crop and livestock reporting service of the United States. 15¢.
 194 MP. A pasture handbook. 10¢.

Statistical Bulletins:

- *3 S. Sheep, lamb, mutton, and wool statistics: Year ended March 31, 1923, with comparable data for earlier years. 15¢.
 *18 S. Statistics of hogs, pork, and pork products: Year ended December 31, 1925, with comparable data for earlier years. 30¢.
 *20 S. Statistics of cattle, calves, beef, veal, hides, and skins: Year ended December 31, 1925, with comparable data for earlier years. 40¢.
 *24 S. Statistics of fats, oils, and oleaginous raw materials. 15¢.

Technical Bulletins:

- *68 T. Ranch organization and methods of livestock production in the Southwest. 25¢.
 *102 T. Types of farming in North Dakota. 15¢.
 *127 T. An economic study of livestock possibilities in the southeastern coastal plain. 20¢.
 *187 T. Ventilation of farm barns. 25¢.
 *220 T. A study of the influence of herbaceous plant cover on surface run-off and soil erosion in relation to grazing on the Wasatch Plateau in Utah. 20¢.
 *409 T. The influence of precipitation and grazing upon black grama grass range. 5¢.

Yearbook Separates:

- *773 Y. Live stock and reconstruction. 5¢.
 *909 Y. Farm animals and their products. 20¢.
 *935 Y. Statistics of farm animals and animal products, 1927. 20¢.
 *1029 Y. Statistics of farm animals and animal products, 1928. 10¢.
 *1107 Y. Statistics of cattle, hogs, sheep, horses, and mules, 1930. 15¢.
 *1147 Y. Crop and livestock production trends. (1931.) 10¢.

Unnumbered:

- Better Sires—Better Stock. L S C 4.
 Enrollment blank for Better Sires—Better Stock Crusade. L S C 2.

Posters:

- Why purebreds excel: Value of purebreds.
 Ten points in better feeding.
 48% more money from purebreds.

Diseases and Parasites: Livestock

(See also specific animal)

Farmers' Bulletins:

- *666 F. Foot-and-mouth disease. 5¢.
 926 F. Some common disinfectants. 5¢.
 954 F. The disinfection of stables. 5¢.
 *988 F. Larkspur or "poison weed." 5¢.
 1018 F. Hemorrhagic septicemia, stockyards fever, swine plague, fowl cholera, etc. 5¢.
 1054 F. The loco-weed disease. 5¢.
 1069 F. Tuberculosis in livestock: Detection, control, and eradication. 5¢.
 1273 F. The stock-poisoning death camas. 5¢.
 1355 F. Blackleg: Its nature, cause, and prevention. 5¢.
 1625 F. Tick fever. 5¢.
 1736 F. Anthrax. 5¢.

Leaflets:

- 88L. Poisoning of livestock by plants that produce hydrocyanic acid. 5¢.

Circulars:

- 32 C. The regional lymph glands of food animals. 10¢.
 *104 C. Johne's disease (Paratuberculosis) of livestock. 5¢.
 320 C. Report on a preliminary field survey of the so-called "alkali disease" of livestock. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Department Bulletins:

- 674 D. Hemorrhagic septicemia. 5¢.
 767 D. Oak-leaf poisoning of domestic animals. 10¢.
 1308 D. Chemical and physical methods for the control of saponified cresol solutions. 5¢.
 *1449 D. Tumors of domestic animals. 10¢.

Department Circulars:

- *180 DC. The "alkali disease" of livestock in the Pecos Valley. 5¢.
 *249 DC. Tuberculin testing of livestock. 10¢.
 *272 DC. Woolly-pod milkweed: A dangerous stock-poisoning plant. 5¢.
 *283 DC. Livestock poisoning by cocklebur. 5¢.
 *325 DC. Foot-and-mouth disease, with special reference to the outbreak of 1914. 5¢.
 *400 DC. Foot-and-mouth disease, with special reference to the outbreaks in California, 1924, and Texas, 1924 and 1925. 15¢.

Miscellaneous Publications:

- 25 MP. A calendar of livestock parasites. 5¢.
 59 MP. Reliability of the tuberculin test. 5¢.
 66 MP. Economic benefits of eradicating tuberculosis from livestock. 10¢.
 *68 MP. The 1929 outbreak of foot-and-mouth disease in southern California. 5¢.
 163 MP. The 1932 outbreak of foot-and-mouth disease in southern California. 5¢.

Technical Bulletins:

- *76 T. Report of the Foot-and-Mouth Disease Commission of the United States Department of Agriculture. 25¢.
 *93 T. Four species of range plants not poisonous to livestock. 5¢.
 *113 T. Arrow grass (*Triglochin maritima*) as a stock-poisoning plant. 5¢.
 *114 T. Sleepy grass (*Stipa vaseyi*) as a stock-poisoning plant. 5¢.
 *219 T. Mountain-laurel (*Kalmia latifolia*) and sheep laurel (*Kalmia angustifolia*) as stock-poisoning plants. 10¢.
 *391 T. Alpine kalmia (*Kalmia microphylla*) as a stock-poisoning plant. 5¢.
 418 T. Transmission of anaplasmosis by various species of ticks. 5¢.
 468 T. Efficacy of anthrax biologics in producing immunity in previously unexposed animals. 5¢.

Yearbook Separates:

- *783 Y. Some results of Federal quarantine against foreign livestock diseases. 5¢.

Posters:

Help eradicate scabies.

Insects: Livestock

(See also specific animal)

Farmers' Bulletins:

- *734 F. Flytraps and their operation. 5¢.
 897 F. Fleas and their control. 5¢.
 980 F. The spinose ear tick and methods of treating infested animals. 5¢.
 1097 F. The stable fly: How to prevent its annoyance and its losses to livestock. 5¢.

Circulars:

- 247 C. A box-type trap to aid in the control of eye gnats and blowflies. 5¢.
 *351 C. Notes on the habits of certain coprophagous beetles and methods of rearing them. 5¢.

Department Bulletins:

- *1472 D. Chemotropic tests with the screw-worm fly. 5¢.

Technical Bulletins:

- *80 T. Tests of blowfly baits and repellents during 1926. 5¢.
 270 T. The chemotropic responses of the house fly, the green-bottle flies, and the black blowfly. 5¢.
 *365 T. Biology of *Brachymeria fonscolombei* (Dufour), a hymenopterous parasite of blowfly larvae. 5¢.
 *418 T. Transmission of anaplasmosis by various species of ticks. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Products: Livestock*(See also specific animal)***Farmers' Bulletins:**

- 1055 F. Country hides and skins: Skinning, curing, and marketing. 5¢.
 1334 F. Home tanning of leather and small fur skins. 5¢.

Circulars:

- 63 C. Conservation of wastes from the small-scale slaughter of meat animals. 5¢.
 378 C. A practical laboratory method of making thin cross sections of fibers. 5¢.

Department Bulletins:

- *928 D. Substitutes for sucrose in curing meats. 5¢.
 *1453 D. The cheese skipper as a pest in cured meats. 15¢.

Technical Bulletins:

- *154 T. A method for determining the color of agricultural products. 10¢.
 169 T. The wearing quality and other properties of vegetable-tanned and of chrome-retanned sole leather. 5¢.
 *383 T. Microbiological studies of salt in relation to the reddening of salted hides. 5¢.

Yearbook Separates:

- *909 Y. Farm animals and their products. 20¢.
 *935 Y. Statistics of farm animals and animal products, 1927. 20¢.
 *1029 Y. Statistics of farm animals and animal products, 1928. 10¢.

Posters:

Wanted—better hides and skins.

Marketing: Livestock and Products*(See also specific animal)***Farmers' Bulletins:**

- 1055 F. Country hides and skins: Skinning, curing, and marketing. 5¢.
 *1502 F. Cooperative livestock shipping associations. 5¢.
 1551 F. Marketing farm produce by parcel post. 5¢.

Leaflets:

- 38 L. Maintaining the health of livestock in transit. 5¢.

Circulars:

- *86 C. A business analysis of the Producers Live Stock Commission Association of National Stock Yards, III. 10¢.
 142 C. Analysis of the operations of a cooperative livestock concentration point. 10¢.

Department Bulletins:

- *1150 D. Accounting records and business methods for live-stock shipping associations. 10¢.
 *1360 D. Market classes and grades of livestock. 15¢.
 *1441 D. Methods and practices of retailing meat. 10¢.
 *1442 D. Margins, expenses, and profits in retailing meat. 10¢.
 *1443 D. Consumer habits and preferences in the purchase and consumption of meat. 10¢.

Department Circulars:

- 300 DC. Commercial cuts of meat. 5¢.

Miscellaneous Circulars:

- 14 MC. State sanitary requirements governing admission of live-stock. 10¢.
 63 MC. The inspection stamp as a guide to wholesome meat. 5¢.

Miscellaneous Publications:

- 33 MP. Advantages of standards for livestock and meats. 5¢.

Technical Bulletins:

- *57 T. Cooperative marketing of livestock in the United States by terminal associations. 25¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Yearbook Separates:

- *809 Y. Federal supervision of live stock markets. 5¢.
- *909 Y. Farm animals and their products. 20¢.
- *935 Y. Statistics of farm animals and animal products, 1927. 20¢.
- *1029 Y. Statistics of farm animals and animal products, 1928. 10¢.

Bureau of Agricultural Economics Service and Regulatory Announcements:

Apply direct to the Bureau of Agricultural Economics, U. S. Department of Agriculture, Washington, D. C., for the following:

- 98 Rules and regulations of the Secretary of Agriculture governing the investigation and certification of class, quality (grade), and condition of meats and meat food products.
- 104 Rules and regulations of the Secretary of Agriculture under the United States Standard Container Act of August 31, 1916.
- 116 Rules and regulations of the Secretary of Agriculture under the United States Standard Container Act of 1928.

Food and Drug Administration Service and Regulatory Announcements:

Apply direct to the Food and Drug Administration, U. S. Department of Agriculture, Washington, D. C., for the following:

- Food and drug:
 - 2 Definitions and standards for food products. 1933. Supplements 1-4 to above publication.

CATTLE (General)

(See also Livestock and cattle concerned)

Diseases and Parasites: Cattle

(See also Diseases and parasites: Livestock)

Farmers' Bulletins:

- 1017 F. Cattle scab and methods of control and eradication. 5¢.
- 1355 F. Blackleg: Its nature, cause, and prevention. 5¢.
- 1422 F. Udder diseases of dairy cows. 5¢.
- 1625 F. Tick fever. 5¢.
- 1704 F. Bang's disease (infectious abortion). 5¢.
- 1736 F. Anthrax. 5¢.

Leaflets:

- 75 L. Warts on cattle. 5¢.

Circulars:

- 154 C. Anaplasmosis in cattle. 5¢.
- *306 C. Trembles (or milk sickness). 5¢.
- 400 C. A simple method for detecting mastitis streptococci in milk. 10¢.

Department Bulletins:

- 662 D. Vesicular stomatitis of horses and cattle. 5¢.

Department Circulars:

- *322 DC. Mycotic stomatitis of cattle. 5¢.

Miscellaneous Publications:

- 59 MP. Reliability of the tuberculin test. 5¢.

Technical Bulletins:

- *202 T. Toxic effect of St. Johnswort (*Hypericum perforatum*) on cattle and sheep. 5¢.
- *418 T. Transmission of anaplasmosis by various species of ticks. 5¢.
- 473 T. Heavy cottonseed meal feeding in relation to udder troubles in dairy cows. 5¢.
- *522 T. Incomplete milking in relation to milk production and udder troubles in dairy cows. 5¢.

Unnumbered:

- Notice regarding scabies in cattle and sheep.
- *Special report on diseases of cattle. 1924. \$1.00.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Posters:

Extent of bovine tuberculosis in the United States.
 Fight tuberculosis—protect your herd.
 Help eradicate scabies.

Insects: Cattle

(See also Insects: Livestock.)

Farmers' Bulletins:

- 909 F. Cattle lice and how to eradicate them. 5¢.
 1057 F. Cattle-fever ticks and methods of eradication. 5¢.
 1596 F. Cattle grubs or heel flies with suggestions for their control. 5¢.
 1625 F. Tick Fever. 5¢.

Leaflets:

- 51 L. Improving cattle in areas freed of ticks. 5¢.

Department Bulletins:

- *1369 D. The cattle grubs or ox warbles, their biologies and suggestions for control. 25¢.

Department Circulars:

- *184 DC. State laws and court decisions relating to cattle-tick eradication. 5¢.

Miscellaneous Publications:

- *2 MP. The story of the cattle-fever tick: What every Southern child should know about cattle ticks. 10¢.

Technical Bulletins:

- *418 T. Transmission of anaplasmosis by various species of ticks. 5¢.
 *500 T. Biology of the primary screw worm fly, *Cochliomyia americana*, and a comparison of its states with those of *C. macellaria*. 10¢.

BEEF CATTLE

(See also Livestock.)

Farmers' Bulletins:

- 612 F. Breeds of beef cattle. 5¢.
 1068 F. Judging beef cattle. 5¢.
 1135 F. The beef calf: Its growth and development. 5¢.
 1350 F. Beef-cattle barns. 5¢.
 *1361 F. Brahman (Zebu) cattle. 5¢.
 *1395 F. Beef-cattle production in the range area. 5¢.
 1415 F. Beef on the farm: Slaughtering, cutting, curing. 5¢.
 1549 F. Feeding cattle for beef. 5¢.
 *1584 F. Feed-lot and ranch equipment for beef cattle. 5¢.
 1592 F. Beef production on the farm. 5¢.
 1600 F. Dehorning, castrating, branding, and marking beef cattle. 5¢.

Circulars:

- *62 C. The utilization of browse forage as summer range for cattle in southwestern Utah. 10¢.
 *65 C. Steer-feeding experiments in the sugar-cane belt. 5¢.

Department Bulletins:

- *504 D. The theory of correlation as applied to farm-survey data on fattening baby beef. 5¢.
 *761 D. A comparison of concentrates for fattening steers in the South. 5¢.
 *1318 D. Steer feeding in the sugar-cane belt. 5¢.
 *1333 D. Fattening steers on velvet beans. 10¢.
 *1394 D. Normal growth of range cattle. 5¢.
 *1431 D. Effect of winter rations on gains of calves marketed as 3-year old steers. 5¢.
 *1454 D. Factors in the cost of producing beef in the Flint Hills section of Kansas. 5¢.

Department Circulars:

- 408 DC. Wintering beef cattle in the Appalachian region. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Statistical Bulletins:

- *20 S. Statistics of cattle, calves, beef, veal, hides, and skins: Year ended December 31, 1925, with comparable data for earlier years. 40¢.

Technical Bulletins:

- *23 T. Costs and methods of fattening beef cattle in the Corn Belt, 1919-1923. 20¢.
 *30 T. Fattening steers on dry-land crops of the Southwest. 5¢.
 *43 T. Sorgo silage, sorgo fodder, and cottonseed hulls as roughages in rations for fattening calves in the Southwest. 10¢.
 *45 T. A study of ranch organization and methods of range-cattle production in the northern Great Plains region. 20¢.
 *192 T. Wintering steers in the north central Great Plains section. 5¢.
 *203 T. Beef production from purebred, grade, and native calves. 5¢.
 *208 T. Beef from calves fed grain before and after weaning. 10¢.
 217 T. Beef production and quality as affected by grade of steer and feeding grain supplement on grass. 15¢.
 237 T. Economic factors affecting the beef-cattle industry of Virginia. 10¢.
 397 T. Comparison of grain rations for beef calves before and after weaning. 5¢.
 *417 T. Beef production and quality as influenced by crossing Brahman with Hereford and Shorthorn cattle. 10¢.
 529 T. Effect of different methods of wintering beef calves, in the Northern Great Plains, on winter gains and feed costs and on subsequent summer gains. 5¢.

Yearbook Separates:

- *749 Y. Growth of the beef-cattle industry in the South. 5¢.
 *764 Y. Cattle loans and their value to investors. 5¢.
 *874 Y. Our beef supply. 20¢.
 *1107 Y. Statistics of cattle, hogs, sheep, horses, and mules, 1930. 15¢.
 *1152 Y. Statistics of cattle, hogs, sheep, horses, mules, asses, and honey. (1931). 15¢.
 *1253 Y. Statistics of cattle, hogs, sheep, horses, mules, and asses. (1932). 10¢.
 *1350 Y. Statistics of beef cattle, hogs, sheep, horses, mules, and asses. (1933). 5¢.
 *1410 Y. Statistics of beef cattle, hogs, sheep, horses, and mules. (1934). 5¢.
 1482 Y. Statistics of beef cattle, hogs, sheep, horses and mules. (1935). 5¢.

Posters:

- Well-bred cattle yield most meat.
 U. S. grades of slaughter cows.
 U. S. grades of feeder steers.
 U. S. grades of slaughter heifers.
 U. S. grades of slaughter steers.

Livestock Series—Better-Sires Pictures:

- No. 9. Growing into the beef business.

Bureau of Agricultural Economics Service and Regulatory Announcements:

Apply direct to the Bureau of Agricultural Economics, U. S. Department of Agriculture, Washington, D. C., for the following:

- 112 Official United States standards for grades of slaughter cattle.
 113 Official United States standards for grades of vealers and slaughter calves.

Products: Beef Cattle

(See also Products: Livestock.)

Farmers' Bulletins:

- 1415 F. Beef on the farm: Slaughtering, cutting, curing. 5¢.

Statistical Bulletins:

- *20 S. Statistics of cattle, calves, beef, veal, hides, and skins: Year ended December 31, 1925, with comparable data for earlier years. 40¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Technical Bulletins:

- *208 T. Beef from calves fed grain before and after weaning. 10¢.
- *217 T. Beef production and quality as affected by grade of steer and feeding grain supplement on grass. 15¢.
- 237 T. Economic factors affecting the beef-cattle industry of Virginia. 10¢.

Yearbook Separates:

- *874 Y. Our beef supply. 20¢.

Posters:

Do you know good beef?

Marketing: Beef Cattle and Products

(See also Marketing: Livestock.)

Leaflets:

- 67 L. Beef grading and stamping service. 5¢.

Circulars:

- *103 C. Market classes and grades of dressed veal and calf carcasses. 25¢.
- *208 C. Market classes and grades of yearling beef. 20¢.

Department Bulletins:

- *1246 D. Market classes and grades of dressed beef. 25¢.
- *1464 D. Market classes and grades of cattle. 25¢.

Miscellaneous Circulars:

- *74 MC. Grading up beef cattle at Sni-A-Bar Farms. 10¢.

Posters:

We sell U. S. Government graded and stamped beef. (Hind quarter.)
 We sell U. S. Government graded and stamped beef. (Fore quarter.)
 We serve U. S. Government graded and stamped beef.

Charts:

- *Four charts showing wholesale and retail cuts of beef, veal, lamb, and fresh pork. 50¢ per set.

Bureau of agricultural Economics Service and Regulatory Announcements:

Apply direct to the Bureau of Agricultural Economics, U. S. Department of Agriculture, Washington, D. C., for the following:
 99 Official United States standards for grades of carcass beef.
 114 Official United States standards for grades of veal and calf carcasses.

DAIRY CATTLE

(See also Livestock)

Farmers' Bulletins:

- 1214 F. Farm dairy houses. 5¢.
- *1272 F. Renting dairy farms. 5¢.
- 1342 F. Dairy-barn construction. 5¢.
- *1361 F. Brahman (Zebu) cattle. 5¢.
- 1393 F. Principles of dairy-barn ventilation. 5¢.
- 1412 F. Care and management of dairy bulls. 5¢.
- 1443 F. Dairy cattle breeds. 5¢.
- 1470 F. Care and management of dairy cows. 5¢.
- 1532 F. Dairy-herd improvement through cooperative bull associations. 5¢.
- *1573 F. Legume hays for milk production. 5¢.
- 1604 F. Dairy-herd-improvement associations, and stories the records tell. 5¢.
- 1610 F. Dairy farming for beginners. 5¢.
- 1626 F. Feeding dairy cows. 5¢.
- 1723 F. Feeding, care, and management of young dairy stock. 5¢.

Leaflets:

- 3 L. Improved sanitation in milk production. 5¢.
- *10 L. Care of the dairy cow at calving time. 5¢.
- 19 L. Improving dairy herds. 5¢.
- 25 L. Preventing feed flavors and odors in milk. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Circulars:

- 1 C. Testing cows for production every other month. 5¢.
- *3 C. Proved dairy sires. 5¢.
- *6 C. Purebred dairy-sire introduction. 10¢.
- *12 C. Dairy work at the Woodward Field Station Woodward, Okla., 1921 to 1926. 10¢.
- *26 C. Comparison of purebred and grade dairy cows. 5¢.
- 114 C. Within the breed the big dairy cows excel. 5¢.
- 155 C. The ice well for the dairy farm. 5¢.
- 166 C. Suggestions for the improvement of old bank dairy barns. 10¢.
- *180 C. The production of dairy cows as affected by frequency and regularity of milking and feeding. 5¢.

Department Bulletins:

- *919 D. Unit requirements for producing milk in western Washington. 5¢.
- *923 D. Unit requirements for producing market milk in Vermont. 5¢.
- *945 D. The influence of calcium and phosphorus in the feed on the milk yield of dairy cows. 5¢.
- *955 D. Unit requirements for producing market milk in south-eastern Louisiana. 5¢.
- *972 D. Unit requirements for producing market milk in eastern Nebraska. 5¢.
- *1097 D. The effect of silage on the flavor and odor of milk. 5¢.
- *1101 D. Unit requirements for producing market milk in Delaware. 5¢.
- *1208 D. Effect of feeding turnips on the flavor and odor of milk. 5¢.
- *1281 D. Relative utilization of energy in milk production and body increase of dairy cows. 10¢.
- *1297 D. Effect of feeding cabbage and potatoes on flavor and odor of milk. 5¢.
- *1326 D. Effect of garlic on the flavor and odor of milk. 5¢.
- *1342 D. Effect of feeding green rye and green cowpeas on the flavor and odor of milk. 5¢.
- *1352 D. Effect of age and development on butterfat production of Register-of-Merit Jersey and Advanced-Register Guernsey cattle. 5¢.
- *1372 D. Transmitting ability of twenty-three Holstein-Friesian sires. 5¢.

Department Circulars:

- *7 DC. Trend of the dairy-cattle industry in the United States and other countries. 5¢.
- *139 DC. The Government exhibit at the 1920 National Dairy Show. 5¢.
- *368 DC. Better cows from better sires: A study of cow-testing association records of dams and their daughters. 5¢.
- *371 DC. Use of the camera in studying the growth and development of dairy animals. 10¢.

Miscellaneous Circulars:

- *26 MC. The cow tester's handbook. 5¢.

Miscellaneous Publications:

- *124 MP. The outlook for the dairy industry and some essentials of a national dairy program. 15¢.
- *130 MP. Feeding and management investigations at the United States Dairy Experiment Station at Beltsville, Md. 1930 report. 5¢.
- 179 MP. Feeding and management investigations at the United States Dairy Experiment Station at Beltsville, Md. 1932 report. 5¢.

Statistical Bulletins:

- *25 S. Dairy statistics: Year ended December 31, 1926, with comparable data for earlier years. 35¢.

Technical Bulletins:

- *9 T. Effect of some succulent feeds on the flavor and odor of milk. 5¢.
- *116 T. Dairy work at the Huntley Field Station, Huntley, Mont. 1918-1927. 15¢.
- *321 T. Reproduction and health records of the Beltsville herd of the Bureau of Dairy Industry. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Technical Bulletins—Continued.

- *339 T. Some results of inbreeding grade Guernsey and grade Holstein-Friesian cattle. 15¢.
- *349 T. Analysis of the advanced registry records of 611 daughters of 51 Ayrshire sires. 5¢.
- *352 T. Sudan grass as hay, silage, and pasture for dairy cattle. 5¢.
- 381 T. Feeding value for milk production of pasture grasses when grazed, when fed green, and when fed as hay or silage. 5¢.
- *465 T. Seasonal variations in carrying capacity of pastures for dairy cows in milk. 5¢.
- 473 T. Heavy cottonseed meal feeding in relation to udder troubles in dairy cows. 5¢.
- *522 T. Incomplete milking in relation to milk production and udder troubles in dairy cows. 5¢.

Yearbook Separates:

- *707 Y. An experiment in community dairying. 5¢.
- *744 Y. How the dairy cow brought prosperity in the wake of the boll weevil. 5¢.
- *1030 Y. Dairy and poultry statistics (1928). 16¢.
- *1108 Y. Dairy and poultry statistics (1930). 10¢.
- *1153 Y. Dairy and poultry statistics (1931). 10¢.
- *1254 Y. Dairy and poultry statistics (1932). 5¢.
- *1411 Y. Dairy and poultry statistics (1934). 5¢.
- *1483 Y. Dairy and poultry statistics (1935). 5¢.

Unnumbered:

- Handbook of dairy statistics, 1928. 15¢.
- Handbook of dairy statistics, 1933. 10¢.

Posters:

- Purebred sires and herd improvement.

Livestock Series—Better-Sires Pictures:

- No. 1. Judging dairy cows at a community picnic.
- No. 6. An accredited dairy herd.

Products: Dairy Cattle

(See also—Products: Livestock)

Farmers' Bulletins:

- 602 F. Production of clean milk. 5¢.
- 876 F. Making butter on the farm. 5¢.
- 960 F. Neufchâtel and cream cheese: Farm manufacture and use. 5¢.
- 976 F. Cooling milk and cream on the farm. 5¢.
- 1315 F. Cleaning milking machines. 5¢.
- 1451 F. Making and using cottage cheese in the home. 5¢.
- 1675 F. Care of milk utensils on the farm. 5¢.
- 1705 F. Milk for the family. 5¢.
- 1734 F. Making American cheese on the farm for home consumption. 5¢.

Leaflets:

- 9 L. Making and storing farm butter for winter use. 5¢.

Circulars:

- 99 C. Equipment for city milk plants. 5¢.
- *108 C. Foaming of milk and cream. 5¢.
- 155 C. The ice well for the dairy farm. 5¢.
- *179 C. Effect of heat treatment upon the quality of dry skim milk and condensed skim milk for ice cream. 5¢.
- 214 C. Small plants for pasteurizing milk. 5¢.
- 222 C. Bacterial counts of milk as affected by some milk-plant practices. 5¢.
- *260 C. Operation and management of milk plants. 5¢.
- 279 C. Methods for manufacturing acid-precipitated casein from skim milk. 5¢.
- 294 C. Practical pointers on making creamery butter in the South. 5¢.
- *329 C. Manufacture, composition, and utilization of dairy by-products for feed. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Circulars—Continued.

- 336 C. Cooling milk on the farm with small mechanical outfits. 5¢.
 *352 C. Packaging, curing, and merchandising American Cheddar cheese in cans. 5¢.
 *359 C. The manufacture of brick cheese. 5¢.

Department Bulletins:

- *319 D. Fermented milks. 5¢.
 *342 D. The present status of the pasteurization of milk. 5¢.
 608 D. Varieties of cheese: Descriptions and analyses. 15¢.
 *669 D. The manufacture of Neufchatel and cream cheese in the factory. 5¢.
 *744 D. Cooling milk and storing and shipping it at low temperatures. 10¢.
 *747 D. The economical use of fuel in milk plants and creameries. 10¢.
 *865 D. A classification of ledger accounts for creameries. 10¢.
 *1075 D. The whipping quality of cream. 5¢.
 *1123 D. Proportioning the ingredients for ice cream and other frozen products by the balance method. 5¢.
 1161 D. Effect of composition on the palatability of ice cream. 5¢.
 *1352 D. Effect of age and development on butterfat production of Register-of-Merit Jersey and Advanced-Register Guernsey cattle. 5¢.

Department Circulars:

- *70 DC. Trend of the butter industry in the United States and other countries: Simple charts with interpretations. 5¢.
 *71 DC. Trend of the cheese industry in the United States and other countries: Simple charts with interpretations. 5¢.
 *139 DC. The Government exhibit at the 1920 National Dairy Show. 5¢.
 *384 DC. How to conduct milk and cream contests. 5¢.

Miscellaneous Publications:

- 37 MP. Essentials for the successful operation of a local creamery. 5¢.
 119 MP. The manufacture of low-acid rennet-type cottage cheese. 5¢.
 *138 MP. Refrigeration in the handling, processing, and storing of milk and milk products. 10¢.
 146 MP. Milk-quality improvement program for 4-H dairy clubs. 5¢.
 148 MP. A milk-quality improvement program for extension workers. 5¢.
 *161 MP. Testing milk and cream. 5¢.
 213 MP. High-quality cream for butter making is easily produced by following 3 important steps. 5¢.

Technical Bulletins:

- *84 T. Preservation of peaches for use in the manufacture of ice cream. 5¢.
 153 T. Effect of milk-plant arrangement and methods of operation on labor requirements. 15¢.
 *159 T. Keeping quality of butter made from cream of various acidities. 5¢.
 *249 T. Some factors affecting the viscosity of cream. 25¢.
 280 T. Effect of plant arrangement, equipment, and methods of operation in relation to breakage of bottles in milk plants. 10¢.
 438 T. The effect of homogenization on certain characteristics of milk. 5¢.

Unnumbered:

- Handbook of dairy statistics, 1928. 15¢.
 Handbook of dairy statistics, 1933. 10¢.

Marketing: Dairy Cattle and Products

(See also Marketing: Livestock.)

Circulars:

- *16 C. Some economic aspects of the marketing of milk and cream in New England. 20¢.
 *199 C. Cream-standardization tables. 5¢.
 *352 C. Packaging, curing, and merchandising American Cheddar cheese in cans. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Department Bulletins:

- *690 D. Marketing practices of Wisconsin and Minnesota creameries. 5¢.
- *744 D. Cooling milk and storing and shipping it at low temperatures. 10¢.
- *858 D. Requirements and cost of producing market milk in north-western Indiana. 5¢.
- *919 D. Unit requirements for producing milk in western Washington. 5¢.
- *923 D. Unit requirements for producing market milk in Vermont. 5¢.
- *955 D. Unit requirements for producing market milk in south-eastern Louisiana. 5¢.
- *972 D. Unit requirements for producing market milk in eastern Nebraska. 5¢.
- *1095 D. Producers' cooperative milk-distributing plants. 10¢.
- *1101 D. Unit requirements for producing market milk in Delaware. 5¢.
- 1344 D. Effect of various factors on the creaming ability of market milk. 5¢.

Miscellaneous Publications:

- *138 MP. Refrigeration in the handling, processing, and storing of milk and milk products. 10¢.
- *161 MP. Testing milk and cream. 5¢.

Technical Bulletins:

- *73 T. Some factors affecting the demand for milk and cream in the metropolitan area of New York. 15¢.
- 179 T. Cooperative marketing of fluid milk. 20¢.
- 243 T. Transporting and handling milk in tanks. 10¢.

Yearbook Separates:

- *699 Y. A federated cooperative cheese manufacturing and marketing association. 5¢.

Food and Drug Administration Service and Regulatory Announcements:

Apply direct to the Food and Drug Administration, U. S. Department of Agriculture, Washington, D. C., for the following:

Import milk:

- No. 1. Regulations for enforcement of the Federal Import Milk Act.

GOATS

(See also Livestock)

Farmers' Bulletins:

- 920 F. Milk goats. 5¢.
- 1203 F. The Angora goat. 5¢.

Miscellaneous Circulars:

- 50 MC. The Angora goat and mohair industry. 30¢.

Livestock Series—Better-Sires Pictures:

- No. 7. Angora goats.

Insects: Goats

(See also Insects: Livestock)

Leaflets:

- 13 L. Sheep and goat lice: Methods of control and eradication. 5¢.

Products: Goats**Technical Bulletins:**

- 35 T. Studies of the occurrence and elimination of kemp fibers in mohair fleeces. 5¢.

HOGS

(See also Livestock)

Farmers' Bulletins:

- *599 F. Pasture and grain crops for hogs in the Pacific Northwest. 5¢.
- *614 F. A Corn-Belt farming system which saves harvest labor by hogging down crops. 5¢.
- 1133 F. Feeding garbage to hogs. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Farmers' Bulletins—Continued.

- 1186 F. Pork on the farm: Killing, curing, and canning. 5¢.
 1263 F. Breeds of swine. 5¢.
 1357 F. Castration of hogs. 5¢.
 1437 F. Swine production. 5¢.
 1455 F. Fitting, showing, and judging hogs. 5¢.
 1487 F. Practical hog houses. 5¢.
 1490 F. Hog-lot equipment. 5¢.
 1504 F. Self-feeding versus hand-feeding sows and litters. 5¢.

Department Bulletins:

- *610 D. Fish meal as a feed for swine. 5¢.
 *1086 D. Shrinkage of soft pork under commercial conditions. 10¢.
 *1381 D. Cost of producing hogs in Iowa and Illinois, years 1921-1922. 10¢.
 *1407 D. Some results of soft-pork investigations. 15¢.
 1440 D. Factors affecting the price of hogs. 15¢.

Statistical Bulletins:

- *18 S. Statistics of hogs, pork, and pork products: Year ended December 31, 1925, with comparable data for earlier years. 30¢.

Technical Bulletins:

- *44 T. The swine sanitation system as developed by the Bureau of Animal Industry in McLean County, Ill. 5¢.
 110 T. Correcting the inefficiency of peanuts for growth in pigs. 5¢.
 359 T. Farmers' response to price in hog production and marketing. 5¢.
 374 T. Effectiveness of the swine sanitation system in the South. 5¢.
 413 T. Effect of quantity and kinds of feed on economy of gains and body composition of hogs. 5¢.

Yearbook Separates:

- *1107 Y. Statistics of cattle, hogs, sheep, horses, and mules, 1930. 15¢.
 *1152 Y. Statistics of cattle, hogs, sheep, horses, mules, asses, and honey. (1931.) 15¢.
 *1410 Y. Statistics of beef cattle, hogs, sheep, horses, and mules. (1934.) 5¢.
 1482 Y. Statistics of beef cattle, hogs, sheep, horses, and mules. (1935.) 5¢.

Posters:

- Cook pork and its products thoroughly.
 Mold your animals into improved individuals.

Livestock Series—Better-Sires Pictures:

- No. 4. No hunger strike here. (Pigs.)

Diseases and Parasites: Hogs

(See also Diseases and Parasites: Livestock)

Farmers' Bulletins:

- *781 F. Tuberculosis of hogs. 5¢.
 *834 F. Hog cholera: Prevention and treatment. 5¢.
 *1244 F. Diseases, ailments, and abnormal conditions of swine. 5¢.

Leaflets:

- 5 L. The prevention of round worms in pigs. 5¢.
 34 L. Trichinosis: A disease caused by eating raw pork. 5¢.
 102 L. Eradicating tuberculosis from poultry and swine. 5¢.
 108 L. Controlling kidney worms in swine in the Southern States. 5¢.
 118 L. Controlling lungworms of swine. 5¢.

Circulars:

- *11 C. Comparative values of types of anti-hog cholera serum. 5¢.

Miscellaneous Publications:

- *79 MP. Anthelmintics for the removal of thorn-headed worms from swine. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Technical Bulletins:

- *405 T. Field and laboratory studies on the behavior of the larvae of the swine kidney worm, *Stephanurus dentatus*. 5¢.
- 437 T. Development of the swine nematode, *Strongyloides ransomi*, and the behavior of its infective larvae. 5¢.
- *456 T. Life history of lungworms parasitic in swine. 5¢.
- *489 T. Early developmental stages of nematodes occurring in swine. 15¢.

Yearbook Separates:

- *798 Y. Practical points in hog cholera control. 5¢.
- *837 Y. Pig parasites and thumps. 5¢.

Unnumbered:

Notice regarding hog cholera.

Posters:

Why suffer hog-cholera losses?
 Take no chances with hog-cholera.
 Free your swine and poultry from tuberculosis. (Large size.)
 Free your swine and poultry from tuberculosis. (Small size.)
 Roundworm control and better pigs.
 The swine kidney worm.

Insects: Hogs

(See also Insects: Livestock)

Farmers' Bulletins:

- 1085 F. Hog lice and hog mange: Methods of control and eradication. 5¢.

Products: Hogs

(See also Products: Livestock)

Farmers' Bulletins:

- 1186 F. Pork on the farm: Killing, curing, and canning. 5¢.

Statistical Bulletins:

- *18 S. Statistics of hogs, pork, and pork products, year ended December 31, 1925, with comparable data for earlier years. 30¢.

Marketing: Hogs

(See also Marketing: Livestock)

Circulars:

- 288 C. Market classes and grades of pork carcasses and fresh pork cuts. 10¢.

Department Bulletins:

- *1086 D. Shrinkage of soft pork under commercial conditions. 10¢.
- *1407 D. Some results of soft-pork investigations. 15¢.

Department Circulars:

- *46 DC. How to make a hog crate. 5¢.

Miscellaneous Publications:

- 222 MP. The direct marketing of hogs. 20¢.

Charts:

- *Four charts showing wholesale and retail cuts of beef, veal, lamb, and fresh pork. 50¢ per set.

HORSES

(See also Livestock)

Farmers' Bulletins:

- *619 F. Breeds of draft horses. 5¢.
- 779 F. How to select a sound horse. 5¢.
- 803 F. Horse-breeding suggestions for farmers. 5¢.
- 952 F. Breeds of light horses. 5¢.
- 1030 F. Feeding horses. 5¢.
- *1298 F. Cost of using horses on Corn-Belt farms. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Farmers' Bulletins—Continued.

- 1368 F. Breaking and training colts. 5¢.
1419 F. Care and management of farm work horses. 5¢.
*1535 F. Farm horseshoeing. 5¢.

Department Bulletins:

- *1202 D. Tractors and horses in the winter wheat belt, Oklahoma, Kansas, Nebraska. 10¢.
*1447 D. Cost of using horses, tractors and combines on wheat farms in Sherman County, Oreg. 10¢.

Statistical Bulletins:

- *5 S. Horses, mules, and motor vehicles: Year ended March 31, 1924, with comparable data for earlier years. 15¢.

Yearbook Separates:

- *754 Y. Breeding horses for the United States army. 5¢.
*1107 Y. Statistics of cattle, hogs, sheep, horses, and mules. (1930.) 15¢.
*1152 Y. Statistics of cattle, hogs, sheep, horses, mules, asses, and honey. (1931.) 15¢.
*1410 Y. Statistics of beef cattle, hogs, sheep, horses, and mules. (1934.) 5¢.
1482 Y. Statistics of beef cattle, hogs, sheep, horses, and mules. (1935.) 5¢.

Livestock Series—Better-Sires Pictures:

- No. 2. Spirit and strength in horseflesh.
No. 8. Castor, versatile Morgan horse.

Diseases and Parasites: Horses

(See also Diseases: Livestock.)

Farmers' Bulletins:

- *1146 F. Dourine of horses. 5¢.

Circulars:

- 148 C. Parasites and parasitic diseases of horses. 10¢.

Department Bulletins:

- *70 D. Immunization tests with glanders vaccine. 5¢.
*166 D. Ophthalmic mallein for the diagnosis of glanders. 5¢.
662 D. Vesicular stomatitis of horses and cattle. 5¢.

Unnumbered:

- *Special report on diseases of the horse. 1924. \$1.00.

Insects: Horses

(See also Insects: Livestock.)

Farmers' Bulletins:

- *1503 F. The horse bots and their control. 5¢.

Department Bulletins:

- *1218 D. Horse-flies: Biologies and relation to western agriculture. 10¢.

MULES

(See also Livestock.)

Farmers' Bulletins:

- 1341 F. Mule production. 5¢.

Statistical Bulletins:

- *5 S. Horses, mules, and motor vehicles: Year ended March 31, 1924, with comparable data for earlier years. 15¢.

Yearbook Separates:

- *1107 Y. Statistics of cattle, hogs, sheep, horses, and mules. (1930.) 15¢.
*1152 Y. Statistics of cattle, hogs, sheep, horses, mules, asses, and honey. (1931.) 15¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Yearbook Separates—Continued.

- *1410 Y. Statistics of beef cattle, hogs, sheep, horses, and mules.
(1934.) 5¢.
1482 Y. Statistics of beef cattle, hogs, sheep, horses, and mules.
(1935.) 5¢.

Livestock Series—Better-Sires Pictures:

- No. 10. They'll pull you through. (Mules.)

SHEEP

(See also Livestock.)

Farmers' Bulletins:

- 576 F. Breeds of sheep for the farm. 5¢.
810 F. Equipment for farm sheep raising. 5¢.
840 F. Farm sheep raising for beginners. 5¢.
*929 F. The place of sheep on New England farms. 5¢.
*1051 F. Sheep on irrigated farms in the Northwest. 5¢.
1134 F. Castrating and docking lambs. 5¢.
1181 F. Raising sheep on temporary pastures. 5¢.
1199 F. Judging sheep. 5¢.
1268 F. Sheep-killing dogs. 5¢.
1632 F. Karakul sheep. 5¢.
1710 F. Range sheep production. 5¢.

Circulars:

- 308 C. Comparison of Rambouillet, Corriedale, and Columbia sheep under intermountain range conditions. 5¢.

Department Bulletins:

- *206 D. The wool grower and the wool trade. 15¢.
*996 D. Flushing and other means of increasing lamb yields. 5¢.

Statistical Bulletins:

- *3 S. Sheep, lamb, mutton, and wool statistics: Year ended March 31, 1923, with comparable data for earlier years. 15¢.

Technical Bulletins:

- *85 T. Factors that influence wool production with range Rambouillet sheep. 15¢.

Yearbook Separates:

- *709 Y. Progress in handling the wool clip: Development in the West. 5¢.
894 Y. The sheep industry. 15¢.
*1107 Y. Statistics of cattle, hogs, sheep, horses, and mules. (1930.) 15¢.
*1152 Y. Statistics of cattle, hogs, sheep, horses, mules, asses, and honey. (1931.) 15¢.
*1410 Y. Statistics of beef cattle, hogs, sheep, horses, and mules. (1934.) 5¢.
1482 Y. Statistics of beef cattle, hogs, sheep, horses, and mules. (1935.) 5¢.

Diseases and Parasites: Sheep

(See also Diseases: Livestock.)

Farmers' Bulletins:

- 713 F. Sheep scab. 5¢.
798 F. The sheep tick and its eradication by dipping. 5¢.
1155 F. Diseases of sheep. 5¢.
1330 F. Parasites and parasitic diseases of sheep. 5¢.

Leaflets:

- 89 L. Controlling stomach worms in sheep and lambs. 5¢.

Department Circulars:

- *82 DC. A new sheep-poisoning plant of the Southern States. 5¢.

Technical Bulletins:

- *202 T. Toxic effect of St. Johnswort (*Hypericum perforatum*) on cattle and sheep. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Unnumbered:

- Notice regarding scabies in cattle and sheep.
 Notice regarding scabies in sheep.

Posters:

- Help eradicate scabies.
 The common sheep liver fluke.

Insects: Sheep

(See also Insects: Livestock)

Leaflets:

- 13 L. Sheep and goat lice: Methods of control and eradication.
 5¢.

Products: Sheep

(See also Products: Livestock)

Department Bulletins:

- *206 D. The wool grower and the wool trade. 15¢.

Technical Bulletins:

- *85 T. Factors that influence wool production with range Rambouillet sheep. 15¢.
 *440 T. Shrinkage and heat penetration during the roasting of lamb and mutton as influenced by carcass grade, ripening period, and cooking method. 5¢.

Statistical Bulletins:

- *3 S. Sheep, lamb, mutton, and wool statistics: Year ended March 31, 1923, with comparable data for earlier years.
 15¢.

Posters:

- Use purebred sires for more and better wool, lamb and mutton.

Livestock Series—Better-Sires Pictures:

- No. 3. Mutton in the making.

Marketing: Sheep and Products

(See also Marketing: Livestock)

Leaflets:

- 92 L. Preparing wool for market. 5¢.

Circulars:

- 383 C. Market classes and grades of lambs and sheep. 10¢.

Department Bulletins:

- 1470 D. Market classes and grades of dressed lamb and mutton.
 15¢.

Technical Bulletins:

- 124 T. Some factors affecting the marketing of wool in Australia, New Zealand, the Union of South Africa, England, and France. 25¢.

Yearbook Separates:

- *709 Y. Progress in handling the wool clip: Development in the West. 5¢.

Charts:

- *Four charts showing wholesale and retail cuts of beef, veal, lamb, and fresh pork. 50¢ per set.

Posters:

- U. S. Grades of slaughter lambs.

Bureau of Agricultural Economics Service and Regulatory Announcements:

- Apply direct to the Bureau of Agricultural Economics, U. S. Department of Agriculture, Washington, D. C., for the following:
 123 Official United States standards for grades of lamb carcasses, yearling mutton, and mutton carcasses.
 135 Official standards of the United States for grades of wool and wool top, and rules and regulations for distribution of practical forms of wool and wool top standards under Wool Standards Act of May 17, 1928.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

POULTRY**Farmers' Bulletins:**

- 684 F. Squab raising. 5¢.
- 697 F. Duck raising. 5¢.
- 767 F. Goose raising. 5¢.
- 849 F. Capons and caponizing. 5¢.
- 1391 F. The guinea fowl. 5¢.
- 1409 F. Turkey raising. 5¢.
- 1506 F. Standard breeds and varieties of chickens: I. American, Asiatic, English, and Mediterranean classes. 5¢.
- 1507 F. Standard breeds and varieties of chickens: II. Continental European, Oriental, and miscellaneous classes. 5¢.
- 1508 F. Poultry keeping in back yards. 5¢.
- 1524 F. Farm poultry raising. 5¢.
- 1538 F. Incubation and brooding of chickens. 5¢.
- 1541 F. Feeding chickens. 5¢.
- 1554 F. Poultry houses and fixtures. 5¢.
- 1614 F. Business records for poultry keepers. 5¢.
- 1727 F. Selecting hens for egg production. 5¢.

Leaflets:

- 96 L. Protecting poultry from predacious birds. 5¢.

Circulars:

- 111 C. An analysis of the business of the poultry producers of central California. 10¢.

Department Bulletins:

- *1385 D. The poultry and egg industry in Europe. 15¢.

Miscellaneous Publications:

- 127 MP. Peafowl and their care. 5¢.

Technical Bulletins:

- 435 T. Comparison of scabbed barley, normal barley, and yellow corn in diets for laying chickens. 5¢.

Yearbook Separates:

- 917 Y. The poultry industry. 20¢.
- *1030 Y. Dairy and poultry statistics, 1928. 10¢.
- *1108 Y. Dairy and poultry statistics. (1930). 10¢.
- *1153 Y. Dairy and poultry statistics. (1931). 10¢.
- *1254 Y. Dairy and poultry statistics. (1932). 5¢.
- *1351 Y. Dairy and poultry statistics. (1933). 5¢.
- *1411 Y. Dairy and poultry statistics. (1934). 5¢.
- *1483 Y. Dairy and poultry statistics. (1935). 5¢.

Posters:

- Standard-bred poultry pays best.
- Hatch early. (Why it pays.)

Livestock Series—Better-Sires Pictures:

- No. 5. Feeding her flock of White Wyandottes.

Diseases and Parasites: Poultry**Farmers' Bulletins:**

- 1652 F. Diseases and parasites of poultry. 10¢.

Leaflets:

- 102 L. Eradicating tuberculosis from poultry and swine. 5¢.

Technical Bulletins:

- 49 T. Nematodes of pathological significance found in some economically important birds in North America. 5¢.
- 227 T. Developmental stages of some nematodes of the Spiruroidea parasitic in poultry and game birds. 15¢.
- *411 T. Western duck sickness: A form of botulism. 10¢.

Posters:

- Free your swine and poultry from tuberculosis. (Large size.)
- Free your swine and poultry from tuberculosis. (Small size.)

Insects: Poultry**Farmers' Bulletins:**

- 801 F. Mites and lice on poultry. 5¢.
- 1070 F. The fowl tick and how premises may be freed from it. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Products: Poultry

Department Bulletins:

- *1385 D. The poultry and egg industry in Europe. 15¢.

Unnumbered:

- Handbook of official United States standards for individual eggs. 5¢.

Marketing: Poultry and Products

Farmers' Bulletins:

- 1377 F. Marketing poultry. 5¢.
1378 F. Marketing eggs. 5¢.
1694 F. Dressing and packing turkeys for market. 5¢.

Circulars:

- *73 C. The cold storage of eggs and poultry. 15¢.

Department Bulletins:

- *17 D. The refrigeration of dressed poultry in transit. 10¢.
*775 D. Commercial preservation of eggs by cold storage. 10¢.

Department Circulars:

- *74 DC. How to break eggs for freezing. 5¢.
*391 DC. Methods of packing eggs and of buffing and bracing cases of eggs in carload shipments. 5¢.

Technical Bulletins:

- *107 T. Wholesale marketing of live poultry in New York City. 15¢.

Yearbook Separates:

- *591 Y. The handling of dressed poultry a thousand miles from the market. 15¢.

Posters:

- U. S. standard grades for eggs.

SMALL ANIMALS

(See also Wildlife)

Farmers' Bulletins:

- 1268 F. Sheep-killing dogs. 5¢.
1491 F. Breeds of dogs. 5¢.
1730 F. Rabbit production. 5¢.

Leaflets:

- 50 L. How to make a cat trap. 5¢.

Department Bulletins:

- *1090 D. The effects of inbreeding and crossbreeding on guinea pigs. 15¢.

Technical Bulletins:

- *103 T. The persistence of differentiation among inbred families of guinea pigs. 10¢.
222 T. Genetic growth differentiation in guinea pigs. 10¢.
279 T. Correlation of hereditary and other factors affecting growth in guinea pigs. 10¢.

Diseases and Parasites: Small Animals

Farmers' Bulletins:

- 449 F. Rabies or hydrophobia. 5¢.
1568 F. Rabbit parasites and diseases. 5¢.

Department Circulars:

- 338 DC. Parasites and parasitic diseases of dogs. 5¢.

Insects: Small Animals

Farmers' Bulletins:

- 980 F. The spinose ear tick and methods of treating infested animals. 5¢.

Products: Small Animals

Farmers' Bulletins:

- 1334 F. Home tanning of leather and small fur skins. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

DEPARTMENT ORGANIZATION

GENERAL

Miscellaneous Publications:

- 3 MP. Editorial policy regarding the Journal of Agricultural Research. 5¢.
- 34 MP. United States Animal Husbandry Experiment Farm, Beltsville, Maryland. 10¢.
- *47 MP. Directory of field activities of the Plant Quarantine and Control Administration. 10¢.
- 48 MP. The Food and Drug Administration of the United States Department of Agriculture. 5¢.
- *49 MP. Directory of field activities of the Bureau of Biological Survey. 5¢.
- 88 MP. The United States Department of Agriculture: Its structure and functions. 15¢.
- *89 MP. Classified list of projects of the Agricultural Experiment Stations, 1930. 35¢.
- 114 MP. The Weather Bureau. 5¢.
- 115 MP. Information for the guidance of field men and cooperators of the Bureau of Biological Survey engaged in the control of injurious rodents and predatory animals. 5¢.
- *129 MP. Directory of field activities of the Bureau of Plant Industry. 20¢.
- *145 MP. Policies of the Bureau of Biological Survey relative to the control of injurious birds. 5¢.
- *155 MP. Directory of field activities of the Bureau of Plant Quarantine, 1933. 10¢.
- 171 MP. The crop and livestock reporting service of the United States. 15¢.
- 177 MP. List of technical workers in the Department of Agriculture and outline of Department functions, 1933. 10¢.
- 180 MP. Workers in subjects pertaining to agriculture in State agricultural colleges and experiment stations. 1933-34. 10¢.
- *202 MP. Federal legislation, rulings, and regulations affecting the State agricultural experiment stations. 5¢.
- 206 MP. The naval stores station of the Bureau of Chemistry and Soils. 5¢.
- 214 MP. Workers in subjects pertaining to agriculture in State agricultural colleges and experiment stations, 1934-1935. 5¢.
- 220 MP. Directory of the Bureau of Entomology and Plant Quarantine, 1935. 10¢.
- 231 MP. Officials and organizations concerned with wildlife protection, 1935. 5¢.
- 233 MP. List of technical workers in the Department of Agriculture and outline of Department functions, 1935. 15¢.
- *234 MP. Workers in subjects pertaining to agriculture in State agricultural colleges and experiment stations, 1935-36. 15¢.
- 238 MP. Directory of activities of the Bureau of Plant Industry. 10¢.
- 241 MP. Officials and organizations concerned with wildlife protection, 1936. 5¢.

Unnumbered:

- *Directory of the Bureau of Animal Industry, 1936. 10¢.
- Serving American agriculture. A report of extension work in agriculture and home economics in 1933. 10¢.

ANNUAL REPORTS AND YEARBOOKS

Agricultural Experiment Stations:

- *1902, \$1.00; *1903, 70¢; *1904, 75¢; *1907, 60¢; *1908, 60¢; *1909, 55¢; *1911, 45¢; *1912, 45¢; *1913, 25¢; *1914, 20¢; *1915, Cloth, \$1.00, Paper, 50¢; *1916, Part I, 25¢, Part II, 30¢; *1917, Part I, 25¢; Part II, 25¢; *1918, Part I, 10¢, Part II, 15¢; *1919, 10¢; *1920, Part I, 10¢, Part II, 10¢; *1921, Part I, 15¢; Part II, 5¢; *1922, 20¢; *1923, 15¢; *1924, 15¢; *1925, 15¢; *1926, 20¢; *1927, 15¢; *1928, 20¢; *1929, 15¢; *1930, 15¢; *1931, 10¢; *1932, 5¢; *1933, 10¢; *1934, 10¢; *1935, 15¢.

Animal Industry:

- *1884, 65¢; *1885, 65¢; *1886, 50¢; *1887-88, 65¢; *1889-90, 40¢; *1891-92, 50¢; *1893-94, 20¢; *1895-96, 50¢; *1897, 65¢; *1898, 75¢; *1899, 85¢; *1901, 90¢; *1902, 65¢; *1903, 50¢; *1904, 55¢; *1905, 50¢; *1906, 60¢.

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*For sale only.

Department Reports:

*1862, 70¢; *1864, 60¢; *1865, 60¢; *1866, 60¢; *1867, 60¢; *1868, 60¢; *1869, 70¢; *1870, 65¢; *1871, 55¢; *1872, 55¢; *1873, 40¢; *1874, 40¢; *1875, 60¢; *1876, 40¢; *1877, 70¢; *1878, 70¢; *1879, 90¢; *1880, \$1.20; *1881-82, \$1.30; *1883, 60¢; *1884, \$1.00; *1885, 80¢; *1886, \$1.00; *1888, \$1.00; *1889, 80¢; *1890, \$1.00; *1891, \$1.00; *1892, \$1.00; *1893, 80¢; *1894, 25¢; *1895, 25¢; *1896, 30¢; *1897, 25¢; *1898, 25¢; *1899, 30¢; *1900, 30¢; *1902, 40¢; *1903, 40¢; *1904, 40¢; *1905, 55¢; *1907, 75¢; *1908, 85¢; *1911, 75¢; *1912, \$1.00; *1913, 40¢; *1914, 40¢; *1915, 40¢; *1916, 50¢; *1917, 50¢; *1918, 55¢; *1919, 75¢; *1920, 75¢; *1922, 85¢; *1923, \$1.00.

Secretary's Reports:

*1924, 10¢; *1926, 15¢; *1927, 10¢; *1928, 15¢; *1929, 15¢; *1930, 15¢; *1931, 15¢; *1932, 10¢; *1933, 10¢; *1935, 10¢.

Weather Bureau:

*1891-92, 70¢; *1893, 70¢; *1894, 70¢; *1896, 70¢; *1897, \$1.20; *1898, 75¢; *1899, 50¢; *1900, 60¢; *1901, 60¢; *1902, 60¢; *1903, 60¢; *1904, 65¢; *1905, 65¢; *1906, 80¢; *1907, \$1.00; *1908, \$1.00; *1909, 65¢; *1910, 75¢; *1911, 75¢; *1912, 75¢; *1913, 60¢; *1914, 60¢; *1915, 60¢; *1917, 65¢; *1918, 65¢; *1919, \$1.00; *1920, 90¢; *1921, \$1.00; *1922, \$1.00; *1923, 85¢; *1924, \$1.00; *1925, \$1.00; *1926, \$1.25; *1927, \$1.25; *1928, \$1.25; *1929, \$1.00; *1931, \$1.25; *1933, \$1.25; *1934, Cloth, \$1.25, Paper, 20¢; *1935, Cloth, \$1.50, Paper, 35¢.

ANNUAL REPORTS OF THE CHIEFS OF—

Bureau of Agricultural Economics:

*1933, 5¢; *1934, 5¢; *1935, 5¢.

Bureau of Agricultural Engineering:

*1934, 5¢; *1935, 5¢.

Bureau of Animal Industry:

*1922, 10¢; *1923, 5¢; *1925, 5¢; *1927, 5¢; *1928, 5¢; *1929, 10¢; *1930, 10¢; *1931, 10¢; *1932, 5¢; *1933, 5¢; *1934, 5¢; *1935, 5¢.

Bureau of Biological Survey:

*1933, 5¢; *1934, 5¢; *1935, 5¢.

Bureau of Chemistry and Soils:

*1929, 5¢; *1930, 10¢; *1931, 10¢; *1932, 5¢; *1933, 5¢; *1934, 5¢; *1935, 5¢.

Bureau of Dairy Industry:

*1932, 5¢; *1933, 5¢; *1934, 5¢; *1935, 5¢.

Bureau of Entomology:

*1933, 5¢; *1934, 5¢.

Bureau of Entomology and Plant Quarantine:

*1935, 10¢.

Bureau of Home Economics:

*1935, 5¢.

Bureau of Plant Industry:

*1917, 5¢; *1918, 5¢; *1919, 5¢; *1920, 10¢; *1921, 5¢; *1922, 5¢; *1923, 5¢; *1924, 5¢; *1925, 5¢; *1926, 5¢; *1927, 5¢; *1928, 5¢; *1929, 5¢; *1930, 5¢; *1931, 5¢; *1932, 5¢; *1933, 5¢; *1934, 5¢; *1935, 5¢.

Bureau of Plant Quarantine:

*1933, 10¢; *1934, 10¢.

Bureau of Public Roads:

*1918, 5¢; *1928, 5¢; *1932, 5¢; *1933, 5¢; *1934, 10¢; *1935, 5¢.

Bureau of Soils:

*1917, 5¢; *1922, 5¢; *1923, 5¢; *1924, 5¢; *1926, 5¢; *1927, 5¢.

Director of Finance:

*1935, 5¢.

Director of Information:

1931, 5¢; 1933, 5¢; *1935, 5¢.

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*For sale only.

64 MISCELLANEOUS PUBLICATION NO. 60

Director of Personnel:

*1935, 5¢.

Extension Service:

*1930, 10¢; *1931, 10¢; *1932, 10¢.

Food and Drug Administration:

*1929, 5¢; *1930, 5¢; *1931, 5¢; *1932, 5¢; *1933, 5¢; *1934, 5¢; *1935, 5¢.

Forest Service:

*1919, 5¢; *1926, 10¢; *1927, 10¢; *1928, 10¢; *1930, 10¢; *1931, 10¢; *1934, 5¢; *1935, 5¢.

Grain Futures Administration:

*1935, 5¢.

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*1935, 5¢.

Office of Experiment Stations:

*1927, 5¢; *1929, 5¢; *1930, 5¢; *1931, 5¢; *1932, 5¢; *1934, 5¢; *1935, 5¢.

Plant Quarantine and Control Administration:

*1930, 10¢; *1931, 15¢; *1932, 5¢.

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*1935, 5¢.

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1931, 5¢; 1932, 5¢; 1933, 5¢; *1934, 5¢; *1935, 5¢.

Weather Bureau:

*1935, 5¢.

ANNUAL REPORTS OF THE AGRICULTURAL EXPERIMENT STATIONS

Alaska:

*1928, 10¢; *1929, 10¢; *1930, 15¢; *1931-32, 5¢.

Guam:

*1930, 15¢; *1931-32, 5¢.

Hawaii:

*1930, 10¢; *1931, 5¢; *1932, 5¢; *1933, 5¢; *1934, 5¢; *1935, 5¢.

Puerto Rico:

*1931, 10¢; *1932, 5¢; *1933, 5¢; *1934, 5¢.

Virgin Islands:

*1919, 5¢; *1920, 5¢; *1921, 5¢; *1922, 5¢; *1923, 5¢; *1924, 10¢; *1925, 5¢; *1926, 5¢; *1927, 10¢; *1928, 5¢; *1929, 10¢; *1930, 5¢; *1931, 10¢; *1932, 5¢.

YEARBOOKS

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*1895-----	.55	*1916-----	1.00
*1896-----	.50	*1917-----	1.00
*1897-----	.60	*1918-----	.85
*1898-----	.60	*1919-----	1.00
*1899-----	.75	*1920-----	1.25
*1900-----	.75	*1921-----	1.25
*1901-----	.80	*1922-----	1.25
*1902-----	.85	*1923-----	1.25
*1903-----	.75	*1924-----	1.50
*1904-----	.65	*1925-----	1.50
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*1911-----	1.00	*1933-----	1.00
*1912-----	1.00	*1934-----	1.00
*1913-----	.75	*1935-----	1.00
*1914-----	.75	*1936-----	1.25

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BIBLIOGRAPHIES AND LISTS OF PUBLICATIONS

Circulars:

- 216 C. Production of organic acids from carbohydrates by fermentation: A digest of the literature. 10¢.

Department Bulletins:

- *1210 D. Summary of literature on bunt, or stinking smut, of wheat. 10¢.
 *1314 D. Bibliography relating to soil alkalies. 10¢.

Miscellaneous Circulars:

- *27 MC. Motion pictures of the United States Department of Agriculture. 5¢.
 *35 MC. Bibliography on the marketing of agricultural products. 10¢.
 *46 MC. A bibliography of the European corn borer (*Pyrausta nubilalis* Hbn.). 10¢.
 *97 MC. Cooperation in agriculture: A selected and annotated reading list. 15¢.

Miscellaneous Publications:

- *9 MP. List of publications of the United States Department of Agriculture from January 1901 to December 1925, inclusive, compiled by comparison with the originals. 25¢.
 60 MP. List of available publications of the United States Department of Agriculture, July 1, 1936. 10¢.
 *62 MP. Bibliography on the relation of clothing to health. 25¢.
 72 MP. Lantern slides and film strips of the United States Department of Agriculture. 5¢.
 *78 MP. An annotated list of literature references on garment sizes and body measurements. 10¢.
 *84 MP. A bibliography of the history of agriculture in the United States. 45¢.
 *89 MP. Classified list of projects of the Agricultural Experiment Stations, 1930. 35¢.
 109 MP. Forest rangers' catechism: Questions and answers on the national forests of the California region. 15¢.
 *110 MP. Glossary of botanical terms commonly used in range research. 15¢.
 116 MP. Rural standards of living: A selected bibliography. 15¢.
 117 MP. Bibliography of ethylene dichloride. 10¢.
 118 MP. The influence of weather on crops: 1900-1930. A selected and annotated bibliography. 40¢.
 125 MP. Bibliography relating to farm structures. 10¢.
 *133 MP. Research in farm structures. 15¢.
 *150 MP. Bibliography on the marketing of agricultural products. 20¢.
 *152 MP. Motion pictures of the United States Department of Agriculture, 1932. 5¢.
 *153 MP. List of publications of the United States Department of Agriculture from January 1926, to December 1930, inclusive. 5¢.
 *172 MP. Bibliography on land settlement with particular reference to small holdings and subsistence homesteads. 50¢.
 *176 MP. Bibliography of chloropicrin, 1848-1932. 10¢.
 *181 MP. List of bulletins of the agricultural experiment stations for the calendar years 1931 and 1932. 10¢.
 198 MP. An annotated bibliography of the Hessian fly, *Phytophaga destructor* (Say). 10¢.
 203 MP. Cotton and cottonseed: A list of the publications of the United States Department of Agriculture on these subjects, including early reports of the United States Patent Office. 15¢.
 *208 MP. Motion pictures of the United States Department of Agriculture, 1934. 5¢.
 *227 MP. Motion pictures of the United States Department of Agriculture, 1935. 5¢.
 *232 MP. List of bulletins of the agricultural experiment stations for the calendar years, 1933 and 1934. 10¢.

Unnumbered:

- *Index to Department Bulletins 1-1500. 25¢.
 *Index to Farmers' Bulletins Nos. 1001-1500. 50¢.
 *Index to publications of the United States Department of Agriculture, 1901-1925. \$3.25.
 *Index to publications of the United States Department of Agriculture, 1926-1930. \$1.50.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Alaska Agricultural Experiment Station Circulars:

- *3 AAESC. List and analytical index of publications of the Alaska Agricultural Experiment Stations—January, 1898, to July, 1931. 10¢.

Hawaii Agricultural Experiment Station Extension Bulletins:

- *10 HAESB. Index to publications of the Hawaii Agricultural Experiment Station—July, 1901, to December 31, 1926. 10¢.

LAWS—RULES—REGULATIONS**Farmers' Bulletins:**

- *1755 F. Game laws for the season 1935-36: A summary of the provisions of Federal, State, and Provincial statutes. 5¢.
1766 F. Game laws for the seasons 1936-37: A summary of the provisions of Federal, State, and Provincial statutes. 5¢.

Department Circulars:

- *182 DC. The Migratory Bird Treaty Act. 5¢.
*184 DC. State laws and court decisions relating to cattle-tick eradication. 5¢.
*251 DC. Federal legislation, regulations, and rulings affecting land-grant colleges and experiment stations. 10¢.
*299 DC. Quarantine procedure to safeguard the introduction of citrus plants: A system of aseptic plant propagation. 5¢.
*359 DC. State forestry laws of 1922 and 1923. 10¢.

Miscellaneous Circulars:

- *9 MC. Importation and inspection of tea. 5¢.
14 MC. State sanitary requirements governing admission of live-stock. 10¢.
51 MC. The farmer and the United States Warehouse Act. 5¢.
*67 MC. The warehousemen and the United States Warehouse Act. 5¢.
*109 MC. Federal legislation and regulations relating to the improvement of Federal-aid roads and national forest roads and trails. 10¢.

Miscellaneous Publications:

- *103 MP. Summary of irrigation-district statutes of Western States. 20¢.
*145 MP. Policies of the Bureau of Biological Survey relative to the control of injurious birds. 5¢.
*189 MP. Synopsis of Federal plant quarantines affecting interstate shipments in effect January 1, 1934. 10¢.
*202 MP. Federal legislation, rulings, and regulations affecting the State agricultural experiment stations. 5¢.

Technical Bulletins:

- *53 T. Scouting, quarantine, and control for the European corn borer, 1917-1926. 30¢.

Yearbook Separates:

- *766 Y. The farmer and Federal grain supervision. 5¢.
*783 Y. Some results of Federal quarantine against foreign live stock diseases. 5¢.
*811 Y. Why produce inspection pays. 5¢.

Unnumbered:

- Notice regarding scabies in cattle and sheep.
Notice regarding hog cholera.
Notice regarding scabies in sheep.
Drive safely.
General requirements for interstate trade in nursery stock.
*Laws applicable to the United States Department of Agriculture. 1935. (Paper bound.) \$1.00.
A standard State soil conservation district law. 10¢.

Alaska Game Commission Circulars:

- *11 AGCC. Regulations relating to game, land fur animals, and birds in Alaska, 1933-34. 5¢.
*12 AGCC. Regulations relating to game, land fur animals, and birds in Alaska, 1935-36. 5¢.
*13 AGCC. Regulations relating to game land fur animals and birds in Alaska, 1936-37. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Bureau of Agricultural Economics Service and Regulatory Announcements:

- Apply direct to the Bureau of Agricultural Economics, U. S. Department of Agriculture, Washington, D. C., for the following:
- 92 Standards for cotton classification in the United States and abroad.
 - 93 Rules and regulations of the Secretary of Agriculture governing the inspection and certification of fruits, vegetables, and other products: Amdt. 1—apples; amdt. 2—potatoes.
 - 94 Official standards of the United States for American cotton linters.
 - 98 Rules and regulations of the Secretary of Agriculture governing the investigation and certification of class, quality (grade), and condition of meats and meat food products.
 - 99 Official United States standards for grades of carcass beef.
 - 104 Rules and regulations of the Secretary of Agriculture under the United States Standard Container Act of August 31, 1916.
 - 108 United States standards for milled rice, brown rice, and rough rice.
 - 109 Items relating to the administration of the United States Cotton Futures and Cotton Standards Acts.
 - 112 Official United States standards for grades of slaughter cattle.
 - 113 Official United States standards for grades of vealers and slaughter calves.
 - 114 Official United States standards for grades of veal and calf carcasses.
 - 116 Rules and regulations of the Secretary of Agriculture under the United States Standard Container Act of 1928.
 - 118 Classification of leaf tobacco covering classes, types, and groups of grades.
 - 123 Official United States standards for grades of lamb carcasses, yearling mutton, and mutton carcasses.
 - 133 The official standards of the United States for the grading, sampling, and analyzing of cottonseed sold or offered for sale for crushing purposes.
 - 135 Official standards of the United States for grades of wool and wool top and rules and regulations for distribution of practical forms of wool and wool top standards under Wool Standards Act of May 17, 1928.
 - 138 United States standards for grades of canned corn—whole-grain style.
 - 139 United States standards for grades of canned corn—cream style.
 - 140 United States standards for canned peas.
 - 141 United States standards for canned tomatoes.
 - 142 United States standards for canned snap beans.
 - 143 Grades, requirements, and regulations of the Secretary of Agriculture carrying out the provisions of the export apple and pear act.
 - 144 Official grain standards of the United States for wheat, barley, feed oats, oats, etc.
 - 145 U. S. standards for grades of canned grapefruit. (Approved Feb. 21, 1934.)
 - 146 Items relating to the administration of the United States Cotton Standards and Cotton Futures Acts.
 - 147 Air-oven and water-oven methods specified in the United States official standards for determining the moisture content of grain.
 - 148 Regulations under the Grain Standards Act.
 - 149 Rules and regulations under the Tobacco Inspection Act.
 - 150 Revision of standards for grades of American upland cotton.

Bureau of Biological Survey Service and Regulatory Announcements:

- Apply direct to the Bureau of Biological Survey, U. S. Department of Agriculture, Washington, D. C., for the following:
- 82 Text of Federal laws relating to the protection of wildlife.
 - 83 Migratory Bird Treaty Act regulations: 1935.
 - 84 Migratory Bird Treaty Act regulations: 1936.

Bureau of Entomology and Plant Quarantine Service and Regulatory Announcements:

Apply direct to the Bureau of Entomology and Plant Quarantine, U. S. Department of Agriculture, Washington, D. C., for the following:

Quarantines Applying to the Continental United States

- No. 6. Date palms.
- 38. Black stem rust.
- 45. Gypsy moth and brown-tail moth.

For information in obtaining publications free and for sale, see p. 2, How to Order.

Bureau of Entomology and Plant Quarantine Service and Regulatory Announcements—Continued.

- No. 48. Japanese beetle.
- 52. Pink bollworm.
- 53. Satin moth.
- 61. Thurberia weevil.
- 63. White pine blister rust.
- 64. Mexican fruit worm.
- 65. Woodgate rust.
- 71. Dutch elm disease (domestic).

Quarantines Applying to the Territories of Hawaii and Puerto Rico

- No. 13. Hawaiian fruits and vegetables.
- 16. Sugarcane.
- 30. Sweetpotato and yam.
- 32. Banana plants.
- 47. Hawaiian and Puerto Rican cotton, cottonseed, and cottonseed products.
- 51. United States quarantined to protect Hawaii.
- 58. Puerto Rican fruits and vegetables.
- 60. Sand, soil, or earth, with plants from Hawaii and Puerto Rico.

Foreign Plant Quarantines

- No. 3. Potatoes.
- 5. Mexican fruits.
- 7. White pine blister rust.
- 8. Pink bollworm.
- 12. Seeds of avocado or alligator pear.
- 15. Sugarcane.
- 19. Citrus nursery stock.
- 20. European pines.
- 24. Indian corn or maize and related plants.
- 28. Citrus fruits.
- 29. Sweetpotato and yam.
- 31. Banana plants.
- 34. Bamboo.
- 37. Nursery stock, plants, and seeds.
- 41. European corn borer.
- 55. Rice.
- 56. Fruits and vegetables.
- 59. Flag smut.
- 69. Packing materials.
- 70. Dutch elm disease (foreign).

Other Restrictive Orders

- Regulations governing the importation of potatoes into the United States.
- Rules and regulations governing the importation of cotton and cotton wrappings into the United States.
- Rules and regulations governing the importation of cottonseed cake, meal, and other cottonseed products into the United States.
- Revised rules and regulations governing the movement of plants and plant products into and out of the District of Columbia.
- Revision of plant safeguard regulations.

Miscellaneous Regulations

- Rules and regulations prohibiting the movement of cotton and cotton seed from Mexico into the United States, and governing the entry into the United States of railway cars and other vehicles, freight, express, baggage, or other materials from Mexico at border points.
- Inspection and certification regulations to meet foreign sanitary requirements.

Food and Drug Administration Service and Regulatory Announcements:

Apply direct to the Food and Drug Administration, U. S. Department of Agriculture, Washington, D. C., for the following:

Caustic poison:

- No. 1. Regulations for enforcement of Caustic Poison Act. 1927.
- No. 2. Acceptable antidotes for dangerous caustic or corrosive substances covered by Federal Caustic Poison Act. 1928.

Food and drug:

- No. 1. Regulations for enforcement of the Federal Food and Drugs Act. 1930.

For information in obtaining publications free and for sale, see p. 2, How to Order.

Food and Drug Administration Service and Regulatory Announcements—Continued.

- No. 2. Definitions and standards for food products. 1933.
- No. 3. Certification of coal-tar food colors. 1931.
- No. 4. Amendment of July 8, 1930, to Federal Food and Drugs Act and requirements thereunder.

Import milk:

- No. 1. Regulations for enforcement of the Federal Import Milk Act.

Insecticide:

- No. 1. Regulations for the enforcement of the Insecticide Act of 1910.

Tea:

- No. 1. Regulations for the enforcement of the Tea Act.

EXPERIMENT STATION WORK

(See also U. S. Possessions)

Circulars:

- *5 C. Work of the Scotts Bluff Field Station, 1922 to 1925. 10¢.
- *12 C. Dairy work at the Woodward Field Station, Woodward, Okla., 1921 to 1926. 10¢.
- *69 C. Work of the Newlands Field Station, Nevada, 1924-1927. 10¢.
- *70 C. Work of the Huntley Field Station, Montana, in 1925 and 1926. 10¢.
- *85 C. Studies of cotton root rot at Greenville, Texas. 10¢.
- *173 C. Cycles of growth in cotton root rot at Greenville, Texas. 5¢.
- *184 C. Methods of crop production at the Colby (Kans.) branch experiment station, 1915 to 1929. 5¢.
- 193 C. Crop rotation and tillage experiments at the San Antonio (Texas) Field Station. 10¢.
- *202 C. Agronomic work of the Big Spring, Texas, Field Station—1915-1929. 5¢.
- 206 C. Agricultural investigations at the United States Field Station, Sacaton, Arizona, 1925-1930. 10¢.
- 213 C. Summer fallow at Ardmore, S. Dak. 5¢.

Department Bulletins:

- *30 D. Cereal investigations at the Nephi substation. 10¢.
- *33 D. Cereal experiments at Dickinson, N. Dak. 10¢.
- *133 D. Experiments with crops under fall irrigation at the Scotts-bluff Reclamation Project Experiment Farm. 5¢.
- *135 D. Experiments in the production of crops on alkali land on the Huntley reclamation project, Montana. 5¢.
- *151 D. Experiments in crop production on fallow land at San Antonio. 5¢.
- *157 D. Tillage and rotation experiments at Nephi, Utah. 5¢.
- *162 D. Horticultural experiments at the San Antonio Field Station, southern Texas. 5¢.
- *270 D. Cereal experiments at the Williston substation. 10¢.
- *297 D. Cereal investigations on the Belle Fourche Experiment Farm. 10¢.
- *336 D. Cereal experiments in Maryland and Virginia. 10¢.
- *398 D. Cereal experiments at the Judith Basin substation, Moccasin, Mont. 10¢.
- *402 D. Cereal experiments at the Akron Field Station, Akron, Colorado. 10¢.
- *430 D. Cereal experiments on the Cheyenne Experiment Farm, Archer, Wyo. 10¢.
- *546 D. Effect of fall irrigation on crop yields at Belle Fourche, S. Dak. 5¢.
- *1039 D. Experiments with cereals on the Belle Fourche Experiment Farm. 15¢.
- *1155 D. Rice experiments at the Biggs Rice Field Station in California. 10¢.
- *1172 D. Cereal experiments at Chico, California. 10¢.
- *1173 D. Experiments in wheat production on the dry lands of the western United States. 10¢.
- *1287 D. Experiments with cereals at the Akron (Colo.) Field Station in the 15-year period, 1908 to 1922, inclusive. 15¢.
- *1293 D. Tillage and rotation experiments at Dickinson, Hettinger, and Williston, N. Dak. 5¢.
- *1301 D. Report of the Northern Great Plains Field Station for the 10-year period, 1913-1922, inclusive. 15¢.
- *1304 D. Crop rotation and cultural methods at the Akron (Colorado) Field Station. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Department Bulletins—Continued.

- *1309 D. Experiments with small grains on the Arlington Experiment Farm. 10¢.
- *1310 D. Experiments with fallow in north-central Montana. 5¢.
- *1337 D. Work of the Northern Great Plains Field Station in 1923. 5¢.
- *1387 D. Experiments in rice culture at the Biggs Rice Field Station in California. 10¢.
- *1418 D. Fertilizer experiments with alfalfa conducted at the United States Yuma Field Station, Bard, Calif., 1919 to 1925. 5¢.
- *1473 D. Cotton-spacing experiments at Greenville, Texas. 15¢.

Department Circulars:

- *60 DC. The work of the Belle Fourche Reclamation Project Experiment Farm in 1918. 5¢.
- *75 DC. The work of the Yuma Reclamation Project Experiment Farm in 1918. 10¢.
- *80 DC. The work in 1918 of the Newlands (formerly the Truckee-Carson) Reclamation Project Experiment Farm. 5¢.
- *86 DC. The work of the Huntley Reclamation Project Experiment Farm in 1918. 5¢.
- *110 DC. The work of the Umatilla Reclamation Project Experiment Farm in 1918 and 1919. 5¢.
- *136 DC. The work of the Newlands Reclamation Project Experiment Farm in 1919. 5¢.
- *147 DC. The work of the Huntley Reclamation Project Experiment Farm in 1919. 5¢.
- *173 DC. The work of the Scottsbluff Reclamation Project Experiment Farm in 1918 and 1919. 5¢.
- *204 DC. The work of the Huntley Reclamation Project Experiment Farm in 1920. 5¢.
- *209 DC. The work of the San Antonio Experiment Farm in 1919 and 1920. 10¢.
- *221 DC. The work of the Yuma Reclamation Project Experiment Farm in 1919 and 1920. 10¢.
- *251 DC. Federal legislation, regulations, and rulings affecting land-grant colleges and experiment stations. 10¢.
- *267 DC. The work of the Newlands Reclamation Project Experiment Farm in 1920 and 1921. 5¢.
- *275 DC. The work of the Huntley Reclamation Project Experiment Farm in 1921. 5¢.
- *277 DC. Crop tests at the Cooperative Testing Station, Sacaton, Ariz. 10¢.
- *289 DC. The work of the Scottsbluff Experiment Farm in 1920 and 1921. 5¢.
- *330 DC. Work of the Huntley Reclamation Project Experiment Farm in 1922. 5¢.
- *339 DC. Work of the Belle Fourche Reclamation Project Experiment Farm from 1919 to 1922, inclusive. 10¢.
- *342 DC. Work of the Umatilla Reclamation Project Experiment Farm in 1920, 1921, and 1922. 5¢.
- *352 DC. Work of the Newlands Reclamation Project Experiment Farm in 1922 and 1923. 5¢.
- *369 DC. Work of the Huntley Field Station in 1923 and 1924. 10¢.
- *372 DC. Agricultural investigations at the United States Field Station, Sacaton, Ariz., 1922, 1923, and 1924. 10¢.
- *401 DC. Growth and development of cotton plants at Greenville, Texas. 5¢.
- *417 DC. Work on the Belle Fourche Field Station in 1923, 1924, and 1925. 10¢.
- *422 DC. Work of the Umatilla Field Station in 1923, 1924, and 1925. 5¢.

Miscellaneous Publications:

- *34 MP. United States Animal Husbandry Experiment Farm, Beltsville, Md. 10¢.
- *89 MP. Classified list of projects of the agricultural experiment stations, 1930. 35¢.
- *130 MP. Feeding and management investigations at the United States Dairy Experiment Station at Beltsville, Md., 1930 report. 5¢.
- 179 MP. Feeding and management investigations at the United States Dairy Experiment Station at Beltsville, Md., 1932 report. 5¢.
- *181 MP. List of bulletins of the agricultural experiment stations, for the calendar years 1931 and 1932. 10¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Miscellaneous Publications—Continued.

- *202 MP. Federal legislation, rulings, and regulations affecting the State agricultural experiment stations. 5¢.
- 214 MP. Workers in subjects pertaining to agriculture in State agricultural colleges and experiment stations. 1934-1935. 10¢.
- *232 MP. List of bulletins of the agricultural experiment stations for the calendar years, 1933 and 1934. 10¢.
- *234 MP. Workers in subjects pertaining to agriculture in State agricultural colleges and experiment stations, 1935-36. 15¢.

Technical Bulletins:

- *17 T. Work of the United States Dry-Land Field Station, Ardmore, S. Dak., 1912 to 1925. 15¢.
- *38 T. Rate and date of seeding and seed-bed preparation for winter wheat at Arlington Experiment Farm. 5¢.
- *39 T. Inheritance of awnedness, yield, and quality in crosses between Bobs, Hard Federation, and Propo wheats at Davis, Calif. 10¢.
- 51 T. Broomcorn experiments at the United States Dry-land Field Station, Woodward, Okla. 10¢.
- *116 T. Dairy work at the Huntley Field Station, Huntley, Mont., 1918-1927. 15¢.
- 316 T. Physical and chemical characteristics of the soils from the erosion experiment stations. 5¢.
- *321 T. Reproduction and health records of the Beltsville herd of the Bureau of Dairy Industry. 5¢.
- *330 T. Rotation and tillage experiments at the Lawton (Okla.) Field Station, 1917-1930. 5¢.
- *353 T. Agricultural investigations at the Huntley (Mont.) Field Station, 1927-1930. 10¢.
- *369 T. Pima Egyptian cotton in irrigated rotations at the Yuma Field Station, Bard, Calif. 5¢.
- *410 T. Experiments with forage crops at the Fort Hays Branch Station, Hays, Kans., 1913 to 1928. 10¢.
- *416 T. Experiments in growing roots as feed crops. 5¢.
- *419 T. Forage-crop field experiments at West Point, Miss. 5¢.
- *430 T. The physical and chemical characteristics of the soils from the erosion experiment stations—second report. 10¢.
- 454 T. Agricultural investigations at the Belle Fourche (S. Dak.) Field Station, 1926-32. 5¢.
- 464 T. Agricultural investigations on the Newlands (Nev.), reclamation project. 5¢.
- *496 T. Growth and survival of deciduous trees in shelter-belt experiments at Mandan, N. Dak., 1915-34. 5¢.
- *509 T. Positions of seeds and motes in locks and lengths of cotton fibers from bolls borne at different positions on plants at Greenville, Tex. 5¢.

Yearbook Separates:

- *690 Y. Agriculture on Government reclamation projects. 5¢.

EXTENSION WORK

Circulars:

- *17 C. A ten-year review of home management extension, 1914-1924. 10¢.
- *22 C. Ten years of agronomy extension, 1915 to 1924. 5¢.
- *30 C. Farm-management extension, 1914-1924. 10¢.
- *43 C. Home demonstration work under the Smith-Lever Act, 1914-1924. 10¢.
- 57 C. The rural church and cooperative extension work. 10¢.
- *58 C. Planning and conducting extension campaigns. 10¢.

Department Bulletins:

- *355 D. Extension course in soils. 10¢.
- *1384 D. The effectiveness of extension in reaching rural people. 5¢.

Department Circulars:

- *2 DC. Sewing for girls' club work. 5¢.
- *30 DC. Organization of a county for extension work—the farm-bureau plan. 5¢.
- *38 DC. Boys' agricultural club work in the Southern States. 5¢.
- *66 DC. Organization and results of boys' and girls' club work (Northern and Western States), 1918. 5¢.
- *106 DC. Status and results, county agent work, Northern and Western States, 1919. 10¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Department Circulars—Continued.

- *107 DC. A system of field and office records for county extension workers. 5¢.
- *140 DC. Statistics of cooperative extension work, 1920-21. 5¢.
- *179 DC. Status and results of county agent work, Northern and Western States, 1920. 5¢.
- *190 DC. Extension work among negroes, 1920. 5¢.
- *192 DC. Status and results of boys' and girls' club work: Northern and Western States, 1920. 10¢.
- *244 DC. Status and results of county agent work: Northern and Western States, 1921. 10¢.
- *248 DC. Status and results of extension work in the Southern States, 1903-21. 10¢.
- *253 DC. Statistics of cooperative extension work, 1922-23. 5¢.
- *255 DC. Status and results of boys' and girls' club work: Northern and Western States, 1921. 5¢.
- *285 DC. Status and results of home demonstration work: Northern and Western States, 1921. 5¢.
- *302 DC. Farm management extension. Early development, and status in 1922. 5¢.
- *308 DC. An extension program in range livestock, dairying, and human nutrition for the Western States. 5¢.
- *312 DC. Boys' and girls' club work, 1922. 10¢.
- *314 DC. Home demonstration work, 1922. 10¢.
- *335 DC. An extension program in crop production to reenforce range livestock, dairying, and human nutrition for the Western States. 5¢.
- *345 DC. Farm-forestry extension: Early development, and status in 1923. 5¢.
- *346 DC. Extension work with fruits, vegetables, and ornamentals, 1923. 5¢.
- *348 DC. Boys' and girls' 4-H club work, 1923. 10¢.
- *355 DC. Extension work among negroes, conducted by negro agents, 1923. 5¢.
- *375 DC. An extension program in home management and farm management for the Western States, with reports of standing regional committees on range livestock, dairying, farm crops, and human nutrition. 5¢.
- 385 DC. How to prepare and display extension exhibits. 5¢.
- *399 DC. Home demonstration work, 1923. 10¢.

Miscellaneous Circulars:

- *27 MC. Motion pictures of the United States Department of Agriculture. 5¢.
- *59 MC. County agricultural agent work under the Smith-Lever Act, 1914-1924. 10¢.
- *72 MC. A decade of negro extension work, 1914-1924. 10¢.
- 77 MC. Boys' and girls' 4-H club work. 5¢.
- 78 MC. Use of motion pictures in agricultural extension work. 10¢.

Miscellaneous Publications:

- *8 MP. A review of five years of fact organization and State and regional program making in the Western States, and a report of the 1927 Extension Conference. 5¢.
- *15 MP. A history of agricultural extension work in the United States. 1785-1923. 75¢.
- *52 MP. How to find economic facts and apply them as a basis for extension programs in home economics, dairying, and forestry. 5¢.
- 72 MP. Lantern slides and film strips of the United States Department of Agriculture. 5¢.
- *85 MP. Horticultural exhibitions. 10¢.
- 146 MP. Milk-quality improvement program for 4-H dairy clubs. 5¢.
- 148 MP. A milk-quality improvement program for extension workers. 5¢.
- *152 MP. Motion pictures of the United States Department of Agriculture, 1932. 5¢.
- 178 MP. Home demonstration work. 5¢.
- *208 MP. Motion pictures of the United States Department of Agriculture, 1934. 5¢.
- *227 MP. Motion pictures of the United States Department of Agriculture, 1935. 5¢.

Technical Bulletins:

- *106 T. Extension methods and their relative effectiveness. 15¢.
- 125 T. Relative costs of extension methods which influence changes in farm and home practices. 10¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

FIRE PREVENTION

Farmers' Bulletins:

- 1512 F. Protection of buildings and farm property from lightning. 5¢.
 1590 F. Fire-protective construction on the farm. 5¢.
 1643 F. Fire safeguards for the farm. 5¢.
 1667 F. Rural community fire departments. 5¢.
 1678 F. Safe use and storage of gasoline and kerosene on the farm. 5¢.

Leaflets:

- 40 L. Woods burning in the South. 5¢.
 44 L. Fires on farms. 5¢.

Circulars:

- *385 C. Dust explosions during fire fighting. 5¢.
 *398 C. Measuring fire weather and forest inflammability. 10¢.

Department Bulletins:

- *379 D. Dust explosions and fires in grain separators in the Pacific Northwest. 10¢.
 *681 D. Grain-dust explosions: Investigation in the experimental attrition mill at the Pennsylvania State College. 10¢.
 *801 D. Construction and fire protection of cotton warehouses. 50¢.
 *1294 D. The role of fire in the California pine forests. 20¢.
 *1373 D. Dust control in grain elevators. 10¢.
 *1495 D. Cover type and fire control in the national forests of northern California. 10¢.

Department Circulars:

- *77 DC. Suggestions for a State law providing for the organization of farmers' mutual fire insurance companies. 5¢.
 *98 DC. The installation of dust-collecting fans on threshing machines for the prevention of explosions and fires and for grain cleaning. 5¢.
 *171 DC. Unprotected electric lights: A fire and explosion hazard in dusty industries. 5¢.
 243 DC. Forest fires in California, 1911-20: An analytical study. 15¢.
 *354 DC. Weather conditions and forest fires in California. 5¢.

Miscellaneous Circulars:

- *19 MC. Forest fires in the intermountain region. 5¢.
 *44 MC. Forest fire control. 5¢.
 *53 MC. When fire is banished from the land of the white oak. 5¢.
 *79 MC. A forest fire prevention handbook for school children. 15¢.
 *88 MC. A forest fire prevention handbook for the schools of Arizona. 10¢.
 *89 MC. A forest fire prevention handbook for the schools of New Mexico. 10¢.

Miscellaneous Publications:

- *20 MP. A forest fire prevention handbook for the schools of Oregon. 10¢.
 *70 MP. Glossary of terms used in fire control. 10¢.

Technical Bulletins:

- *74 T. The value of inert gas as a preventive of dust explosions in grinding equipment. 5¢.
 *141 T. The spontaneous combustion of hay. 10¢.
 *209 T. The determination of hour control for adequate fire protection in the major cover types of the California pine region. 10¢.
 *490 T. Explosibility of agricultural and other dusts as indicated by maximum pressure and rates of pressure rise. 5¢.

Yearbook separates:

- *697 Y. Farmers' mutual fire insurance. 5¢.

Posters:

- Death rides the forest. M-5155.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

FORESTRY

(See also Fire prevention: Nuts and nut trees: Ornamental plants and trees.)

GENERAL CARE AND MANAGEMENT

Farmers' Bulletins:

- *173 F. A primer of forestry. 5¢.
- *358 F. A primer of forestry. Part II: Practical forestry. 5¢.
- *622 F. Basket willow culture. 5¢.
- 1071 F. Making woodlands profitable in the Southern States. 5¢.
- 1117 F. Forestry and farm income. 5¢.
- 1123 F. Growing and planting hardwood seedlings on the farm. 5¢.
- *1177 F. The care and improvement of the farm wood. 5¢.
- 1256 F. Slash pine. 5¢.
- *1312 F. Tree planting in the Great Plains region. 5¢.
- 1392 F. Black walnut for timber and nuts. 5¢.
- *1405 F. The windbreak as a farm asset. 5¢.
- *1417 F. Idle land and costly timber. 5¢.
- 1453 F. Growing and planting coniferous trees on the farm. 5¢.
- 1486 F. Long-leaf pine primer. 5¢.
- 1492 F. Arbor Day: Its purpose and observance. 5¢.
- 1517 F. Loblolly pine primer. 5¢.
- 1526 F. Clearing land of brush and stumps. 5¢.
- *1603 F. Planting and care of shelter belts on the northern Great Plains. 5¢.
- 1628 F. Growing black locust trees. 5¢.
- 1664 F. Christmas trees as a cash crop for the farm. 5¢.
- 1671 F. Shortleaf pine. 5¢.
- 1680 F. Farmers in Northern States grow timber as money crop. 5¢.
- 1693 F. Growing Christmas holly on the farm. 5¢.
- 1726 F. Treatment and care of tree wounds. 5¢.

Leaflets:

- 18 L. Bamboos and bamboo culture. 5¢.
- 29 L. The farm woods: A savings bank paying interest. 5¢.
- 30 L. Cutting the farmwoods "profitwise." 5¢.
- 32 L. Planting southern pine. 5¢.
- 35 L. Producing pine nursery stock in the South. 5¢.
- 55 L. Small trees wasteful to cut for saw timber. 5¢.
- 57 L. Pulp-wood crops in the Northeast. 5¢.
- 86 L. Protect hardwood stands from grazing. 5¢.

Circulars:

- *21 C. America and the world's woodpile. 5¢.
- *125 C. Experiments in the use of fertilizers in growing forest planting material at the Savenac nursery. 10¢.
- *134 C. Suggestions for the management of spruce stands in the Northeast. 10¢.
- *333 C. Sample plots in silvicultural research. 10¢.
- *344 C. Causes of decadence in the old groves of North Dakota. 5¢.
- *357 C. Slash disposal in ponderosa pine forests of the Southwest. 5¢.
- 358 C. The forest-tax problem and its solution summarized. 5¢.
- *379 C. Shipmast locust: A valuable undescribed variety of *Robinia pseudoacacia*. 5¢.
- *398 C. Measuring fire weather and forest inflammability. 10¢.

Department Bulletins:

- *9 D. An economic study of acacias. 10¢.
- *234 D. Utilization and management of lodgepole pine in the Rocky Mountains. 15¢.
- *496 D. Investigations of the rotting of slash in Arkansas. 5¢.
- *544 D. The red spruce: Its growth and management. 20¢.
- *580 D. Effects of grazing upon western yellow-pine reproduction in the national forests of Arizona and New Mexico. 10¢.
- *711 D. Logging in the Douglas fir region. 30¢.
- *741 D. Effect of grazing upon aspen reproduction. 10¢.
- 790 D. Range management on the national forests. 35¢.
- *863 D. Forestry lessons on home woodlands. 10¢.
- *1061 D. Longleaf pine. 15¢.
- *1140 D. The deterioration of felled western yellow pine on insect-control projects. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Department Bulletins—Continued.

- *1176 D. Some results of cutting in the Sierra forests of California. 5¢.
- *1236 D. Farming the logged-off uplands in western Washington. 10¢.
- *1241 D. How the United States can meet its present and future pulp-wood requirements. 15¢.
- *1263 D. Relative resistance of tree seedlings to excessive heat. 5¢.
- *1291 D. Aspen in the central Rocky Mountain region. 15¢.
- *1294 D. The role of fire in the California pine forests. 20¢.
- *1430 D. Financial limitation in the employment of forest cover in protecting reservoirs. 15¢.
- 1493 D. Timber growing and logging practice in the Douglas fir region: Measures necessary to keep forest land productive and to produce full timber crops. 15¢.
- *1494 D. Timber growing and logging practice in the western white pine and larch-fir forests of the northern Rocky Mountains. 15¢.
- *1495 D. Cover type and fire control in the national forests of northern California. 10¢.
- *1496 D. Timber growing and logging practice in the Lake States. 10¢.
- *1497 D. Forest planting in the Lake States. 20¢.
- *1499 D. Timber growing and cutting practice in the lodgepole pine region. 15¢.

Department Circulars:

- *5 DC. Out-of-door playgrounds of the San Isabel National Forest. 5¢.
- *112 DC. Timber depletion and the answer: A summary of the report on timber depletion and related subjects prepared in response to Senate Resolution 311. 5¢.
- *240 DC. The national forests of New Mexico. 5¢.
- *327 DC. The French turpentine system applied to longleaf pine. 5¢.
- *345 DC. Farm-forestry extension: Early development, and status in 1923. 5¢.
- *359 DC. State forestry laws of 1922 and 1923. 10¢.

Miscellaneous Circulars:

- *31 MC. Let's know some trees. 5¢.
- *36 MC. The Wichita National Forest and Game Preserve. 5¢.
- *47 MC. What the national forests mean to the intermountain region. 10¢.
- *48 MC. What the national forests mean to Montana. 10¢.
- *71 MC. National forest resources of Utah. 10¢.
- *82 MC. National forests of Wyoming. 10¢.
- *91 MC. A forestry program for women's organizations. 5¢.
- *94 MC. The national forests of California. 15¢.
- *98 MC. The forest: A handbook for teachers. 10¢.
- *100 MC. The natural replacement of blight-killed chestnut. 5¢.
- *109 MC. Federal legislation and regulations relating to the improvement of Federal-aid roads and national forest roads and trails. 10¢.

Miscellaneous Publications:

- *18 MP. National forests of Colorado. 15¢.
- *24 MP. Growing pine timber for profit in the South. 5¢.
- *61 MP. Forest plantations at Biltmore, N. C. 15¢.
- *99 MP. Government forest work in Utah. 10¢.
- 109 MP. Forest rangers' catechism: Questions and answers on the national forests of the California region. 15¢.
- *110 MP. Glossary of botanical terms commonly used in range research. 15¢.
- 162 MP. Our forests: What they are and what they mean to us. 5¢.
- *209 MP. A naval stores handbook dealing with the production of pine gum or oleoresin. 20¢.
- *217 MP. Forest trees and forest regions of the United States. 15¢.
- *218 MP. Forest taxation in the United States. 75¢.
- *225 MP. Converting factors and tables of equivalents used in forestry. 15¢.

Technical Bulletins:

- *3 T. The relation of highway slash to infestations by the western pine beetle in standing timber. 5¢.
- *92 T. The economic aspects of forest destruction in northern Michigan. 25¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Technical Bulletins—Continued.

- *104 T. Deterioration of wind-thrown timber on the Olympic Peninsula, Wash. 10¢.
- *132 T. Decay of slash of northern white pine in southern New England. 5¢.
- *142 T. Yields of second-growth spruce and fir in the Northeast. 15¢.
- *155 T. Quaking aspen: A study in applied forest pathology. 10¢.
- *164 T. Selective logging in the northern hardwoods of the Lake States. 5¢.
- *166 T. Timber growing and logging practice in the Northeast. 15¢.
- *168 T. The application of silviculture in controlling the specific gravity of wood. 15¢.
- *191 T. The production, extraction, and germination of lodgepole pine seed. 20¢.
- *201 T. The yield of Douglas fir in the Pacific Northwest. 20¢.
- *223 T. Reproduction on pulpwood lands in the Northeast. 20¢.
- *226 T. The distribution and the mechanical properties of Alaska woods. 20¢.
- *246 T. The relation of season of wounding and shellacking to callus formation in tree wounds. 10¢.
- *247 T. Forest types in the Southwest as determined by climate and soil. 30¢.
- *250 T. Timber growing and logging practice in the southern Appalachian region. 30¢.
- *256 T. Suitability of brush lands in the intermountain region for the growth of natural or planted western yellow pine forests. 25¢.
- *259 T. Slash disposal in the western yellow pine forests of Oregon and Washington. 20¢.
- *286 T. Decay and other losses in Douglas fir in western Oregon and Washington. 20¢.
- *298 T. Experiments in naval stores practice. 10¢.
- *304 T. An alinement-chart method for preparing forest-tree volume tables. 10¢.
- 323 T. Second-growth yield, stand, and volume tables for the western white pine type. 10¢.
- *346 T. The effect of concentration on the toxicity of chemicals to living organisms. 5¢.
- *354 T. Preliminary yield tables for second-growth stands in the California pine region. 5¢.
- 356 T. Yellow poplar characteristics, growth, and management. 5¢.
- 412 T. Yield of second-growth western hemlock-Sitka spruce stands in southeastern Alaska. 5¢.
- *420 T. Poplars, principal tree willows and walnuts of the Rocky Mountain region. 10¢.
- *476 T. Forest improvement measures for the southern Appalachians. 5¢.
- *480 T. Timber growing and logging practice in the Southwest and in the Black Hills region. 10¢.
- *492 T. Artificial reforestation in the southern pine region. 15¢.
- *494 T. Decay following fire in young Mississippi Delta hardwoods. 5¢.
- *511 T. Timber growing and logging practice in ponderosa pine in the Northwest. 10¢.

Yearbook Separates:

- *602 Y. National forest timber for the small operator. 5¢.
- *779 Y. Farm woodlands and the War. 5¢.
- *835 Y. Wood for the nation. 5¢.
- *847 Y. How the public forests are handled. 5¢.
- *886 Y. Timber: Mine or crop? 15¢.

Unnumbered:

- Eastern and southern national forests.
- *Instructions for the scaling and measurement of national forest timber. 15¢.
- *Possibilities of shelterbelt planting in the plains region. 75¢.

Posters:

- (Free distribution limited to teachers and other adults engaged in some form of forest work)
- Death rides the forest. M-5155.
- Grow timber. (4-H Forestry Club Work.)
- How a tree grows. M-5159.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Diseases: Forest

Farmers' Bulletins:

- *1398 F. Currants and gooseberries: Their culture and relation to white-pine blister rust. 5¢.

Circulars:

- *217 C. *Cronartium comptoniae*: The sweetfern blister rust of pitch pines. 5¢.
 322 C. Outbreaks of the Dutch elm disease in the United States. 5¢.
 *330 C. Immunity of Viking, a Norwegian red currant, to *Cronartium ribicola* and *C. occidentale* under greenhouse conditions. 15¢.
 353 C. The Dutch elm disease eradication project: Federal, State, and local cooperation. 5¢.

Department Bulletins:

- *510 D. Timber storage conditions in the Eastern and Southern States with reference to decay problems. 25¢.
 *722 D. A study of heart-rot in western hemlock. 10¢.
 *871 D. The dry-rot of incense cedar. 15¢.
 *1112 D. The western yellow-pine mistletoe: Effect on growth and suggestions for control. 15¢.
 *1131 D. The formation and pathological anatomy of frost rings in conifers injured by late frosts. 10¢.
 *1186 D. White-pine blister rust in western Europe. 10¢.
 *1262 D. Effect of kiln drying, steaming, and air seasoning on certain fungi in wood. 10¢.

Miscellaneous Publications:

- 22 MP. Protect white pine from blister rust. 5¢.
 *23 MP. Protect western white pine and sugar pine from blister rust. 10¢.
 27 MP. Black currant spreads white-pine blister rust. 5¢.

Technical Bulletins:

- *87 T. White-pine blister rust: A comparison of European with North American conditions. 15¢.
 *104 T. Deterioration of wind-thrown timber on the Olympic Peninsula, Wash. 10¢.
 *155 T. Quaking aspen: A study in applied forest pathology. 10¢.
 *240 T. The chemical eradication of *Ribes*. 10¢.
 261 T. Longevity and germination of seeds of *Ribes*, particularly *R. rotundifolium*, under laboratory and natural conditions. 15¢.
 *286 T. Decay and other losses in Douglas fir in western Oregon and Washington. 20¢.

Unnumbered:

- Protect white pine from blister rust.

Insects and Other Pests: Forest

Farmers' Bulletins:

- 799 F. Carbon disulphid as an insecticide. 5¢.
 940 F. Common white grubs. 5¢.
 *1154 F. The aspen borer and how to control it. 5¢.
 *1197 F. Protection of mesquite cordwood and posts from borers. 5¢.
 1259 F. A sawfly injurious to young pines. 5¢.
 1477 F. Preventing damage by *Lyctus* powder-post beetles. 5¢.
 1582 F. Protection of log cabins, rustic work, and unseasoned wood from injurious insects. 5¢.
 1586 F. The southern pine beetle: A serious enemy of pines in the South. 5¢.
 *1623 F. The gipsy moth and the brown-tail moth. 5¢.

Circulars:

- 176 C. Observations on the satin moth and its natural enemies in Central Europe. 5¢.
 *189 C. Control of the satin moth by spraying in alternate years. 5¢.
 204 C. An air-pressure extension brush for applying creosote to gipsy moth egg clusters. 5¢.
 221 C. The white-pine weevil. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Circulars—Continued.

- 224 C. Two destructive defoliators of lodgepole pine in the Yellowstone National Park. 5¢.
 226 C. Control of the turpentine borer in the naval stores region. 5¢.

Department Bulletins:

- *111 D. The sequoia pitch moth, a menace to pine in western Montana. 5¢.
 *184 D. The huisache girdler. 5¢.
 *204 D. Report on the gipsy moth work in New England. 30¢.
 *766 D. A study of *Compsilura concinnata*, an imported tachinid parasite of the gipsy moth and the brown-tail moth. 10¢.
 *838 D. Cypress bark scale. 10¢.
 *1028 D. *Apanteles melanoscelus*, an imported parasite of the gipsy moth. 10¢.
 *1079 D. Experiments with spray solutions for preventing insect injury to green logs. 5¢.
 *1080 D. Effect of low temperature on the hatching of gipsy-moth eggs. 5¢.
 *1088 D. *Zygobothria nidicola*, an important parasite of the brown-tail moth. 5¢.
 *1093 D. The gipsy moth on cranberry bogs. 10¢.
 *1140 D. The deterioration of felled western yellow pine on insect-control projects. 5¢.
 *1142 D. The barrier factors in gipsy moth tree-banding material. 5¢.
 *1182 D. The imported pine sawfly. 5¢.
 *1223 D. The European elm scale in the West. 10¢.
 *1238 D. The cankerworms. 10¢.
 *1363 D. Host relations of *Compsilura concinnata* Meigen, an important tachinid parasite of the gipsy moth and the brown-tail moth. 5¢.
 *1469 D. The satin moth, a recently introduced pest. 10¢.
 *1490 D. Defects in timber caused by insects. 15¢.

Department Circulars:

- *411 DC. The relation of insects to slash disposal. 5¢.

Miscellaneous Publications:

- *74 MP. An annotated list of the important North American forest insects. 10¢.

Technical Bulletins:

- *3 T. The relation of highway slash to infestations by the western pine beetle in standing timber. 5¢.
 *48 T. The western cedar pole borer or powder worm. 5¢.
 *83 T. The Pacific flathead borer. 15¢.
 *86 T. Imported insect enemies of the gipsy moth and the brown-tail moth. 50¢.
 *111 T. Fish oil as an adhesive in lead-arsenate sprays. 10¢.
 *137 T. The pandora moth, a periodic pest of western pine forests. 5¢.
 *195 T. Control of the mountain pine beetle in lodge-pole pine by the use of solar heat. 5¢.
 *336 T. Attractants for the flying gipsy moths as an aid in locating new infestations. 5¢.
 *431 T. A revisional study of the genus *Scolytus* Geoffroy (*Eccoptogaster* Herbst) in North America. 5¢.
 *477 T. *Apanteles solitarius* (Ratzeburg), an introduced braconid parasite of the satin moth. 5¢.
 *494 T. Decay following fire in young Mississippi Delta hardwoods. 5¢.

FOREST INFLUENCES**Farmers' Bulletins:**

- *358 F. Primer of Forestry—Part II. 5¢.
 *1312 F. Tree planting in the Great Plains region. 5¢.
 *1405 F. Planting and care of shelterbelts on the Northern Great Plains. 5¢.
 1417 F. Idle land and costly timber. 5¢.

Circulars:

- *19 C. Forests and floods. 5¢.
 *344 C. Causes of decadence in the old groves of North Dakota. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Circulars—Continued.

- *347 C. Effect of cover on surface run-off and erosion in the loessial uplands of Mississippi. 5¢.
 *380 C. Erosion control on mountain roads. 10¢.

Department Bulletins:

- *1430 D. Financial limitation in the employment of forest cover in protecting reservoirs. 15¢.

Miscellaneous Publications:

- 162 MP. Our forests: What they are and what they mean to us. 5¢.
 *165 MP. The barrier system for control of floods in mountain streams. 5¢.
 196 MP. Floods and accelerated erosion in northern Utah. 5¢.

Technical Bulletins:

- *220 T. A study of the influence of herbaceous plant cover on surface run-off and soil erosion in relation to grazing on the Wasatch Plateau in Utah. 20¢.
 *496 T. Growth and survival of deciduous trees in shelter-belt experiments at Mandan, N. Dak., 1915-34. 5¢.

Unnumbered:

- Forests and water in the light of scientific investigation. 20¢.
 *Possibilities of shelterbelt planting in the plains region. 75¢.

FOREST PRODUCTS**Farmers' Bulletins:**

- 744 F. The preservative treatment of farm timbers. 5¢.
 1366 F. Production of maple sirup and sugar. 5¢.
 1660 F. The use of logs and poles in farm construction. 5¢.
 1756 F. Selection of lumber for farm and home building 5¢.

Leaflets:

- 30 L. Cutting the farm woods "profitwise." 5¢
 41 L. Good naval-stores practice. 5¢.
 83 L. More turpentine, less scar, better pine. 5¢.

Circulars:

- *105 C. Knotty lumber for boxes. 10¢.
 *110 C. Specific gravity and Baumé gravity tables for turpentine 5¢.
 *128 C. Effectiveness of moisture-excluding coatings on wood. 10¢.
 *131 C. Utilization of black locust. 10¢.
 *163 C. Manufacture of dimension stock from northern hardwoods. 15¢.
 *225 C. Utilization of bigleaf maple of the Pacific Northwest. 5¢.
 *236 C. Design factors affecting the strength and rigidity of wooden crates. 5¢.
 *239 C. Moisture content of wood in dwellings. 5¢.
 394 C. Dimension-stock methods for New England hardwoods. 10¢.

Department Bulletins:

- *9 D. An economic study of acacias. 10¢.
 *232 D. The production of lumber in 1913. 5¢.
 *234 D. Utilization and management of lodgepole pine in the Rocky Mountains. 15¢.
 *286 D. Strength tests of structural timbers treated by commercial wood-preserving processes. 5¢.
 *296 D. Our foreign trade in farm and forest products. 10¢.
 *508 D. Yields from the destructive distillation of certain hardwoods. 5¢.
 *510 D. Timber storage conditions in the Eastern and Southern States with reference to decay problems. 25¢.
 *523 D. Utilization of ash. 15¢.
 *549 D. Crossties purchased and treated in 1915. 5¢.
 *556 D. Mechanical properties of woods grown in the United States. 10¢.
 *673 D. Production of lumber, lath, and shingles in 1916. 5¢.
 *768 D. Production of lumber, lath, and shingles in 1917. 10¢.
 *845 D. Production of lumber, lath, and shingles in 1918. 10¢.
 884 D. Utilization of sycamore. 5¢.
 *894 D. Manual of design and installation of Forest Service water spray dry kiln. 10¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

80 MISCELLANEOUS PUBLICATION NO. 60

Department Bulletins—Continued.

- *989 D Pine-oil and pine-distillate product emulsions: Method of production, chemical properties, and disinfectant action. 5¢.
- *1036 D. Coal-tar and water-gas tar creosotes: Their properties and methods of testing. 20¢.
- *1136 D. Kiln drying handbook. 30¢.
- *1241 D. How the United States can meet its present and future pulp-wood requirements. 15¢.
- *1262 D. Effect of kiln drying, steaming, and air seasoning on certain fungi in wood. 10¢.
- *1425 D. The air seasoning of western softwood lumber. 20¢.
- *1500 D. The gluing of wood. 25¢.

Department Circulars:

- *64 DC. How lumber is graded. 5¢.
- *295 DC. Basic grading rules and working stresses for structural timbers. 5¢.
- *327 DC. The French turpentine system applied to long-leaf pine. 5¢.
- *421 DC. The control of stain, decay, and other seasoning defects in red gum. 10¢.

Miscellaneous Circulars:

- *39 MC. Report of the National Conference on Utilization of Forest Products. 20¢.
- *66 MC. The identification of furniture woods. 25¢.

Miscellaneous Publications:

- *196 MP. Pine tree treasures. 5¢.
- *107 MP. An explanation of American lumber standards. 5¢.
- *185 MP. Guide to the grading of structural timbers and the determination of working stresses. 5¢.
- *209 MP. A naval stores handbook dealing with the production of pine gum or oleoresin. 20¢.
- *224 MP. Manual on preservative treatment of wood by pressure. 15¢.
- *225 MP. Converting factors and tables of equivalents used in forestry. 15¢.
- *240 MP. Colloid chemistry of cellulosic materials. 10¢.

Statistical Bulletins:

- *32 S. Stumpage and log prices for the calendar year 1928. 10¢.
- *36 S. Stumpage and log prices for the calendar year 1929. 15¢.
- *37 S. Stumpage and log prices for the calendar year 1930. 15¢.
- *44 S. Stumpage and log prices for the calendar years 1931 and 1932. 10¢.
- *49 S. Stumpage and log prices for the calendar year 1933. 10¢.
- *51 S. Stumpage and log prices for the calendar year 1934. 10¢.

Technical Bulletins:

- *139 T. Properties of western hemlock and their relation to uses of the wood. 20¢.
- *158 T. Comparative strength properties of woods grown in the United States. 5¢.
- *164 T. Selective logging in the northern hardwoods of the Lake States. 5¢.
- *165 T. The kiln drying of southern yellow pine lumber. 20¢.
- *167 T. Tests of large timber columns and presentation of the Forest Products Laboratory column formula. 15¢.
- *168 T. The application of silviculture in controlling the specific gravity of wood. 15¢.
- *174 T. The air seasoning of wood. 35¢.
- *205 T. Gluing wood in aircraft manufacture. 25¢.
- *226 T. The distribution and the mechanical properties of Alaska woods. 20¢.
- *248 T. Wood-liquid relations. 10¢.
- *262 T. Improvement in the production of oleoresin through lower chipping. 15¢.
- 276 T. The fractionation of American gum spirits of turpentine and evaluation of its pinene content by optical means. 5¢.
- *282 T. Strength-moisture relations for wood. 20¢.
- *285 T. Properties of western larch and their relation to uses of the wood. 35¢.
- *298 T. Experiments in naval stores practice. 10¢.
- 305 T. The strength and related properties of redwood. 10¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Technical Bulletins—Continued.

- *332 T. The bearing strength of wood under bolts. 5¢.
- 334 T. The effect of inorganic acids on the physical properties of waterleaf rag bond paper. 5¢.
- *342 T. Causes of brashness in wood. 5¢.
- *346 T. The effect of concentration on the toxicity of chemicals to living organisms. 5¢.
- *355 T. An analysis of log production in the "Inland Empire" region. 10¢.
- *408 T. Properties of white fir and their relation to the manufacture and uses of the wood. 10¢.
- *479 T. Strength and related properties of woods grown in the United States. 25¢.
- *510 T. Variations in naval stores yields associated with weather and specific days between chippings. 5¢.

Marketing: Forest and Forest Products**Unnumbered:**

- *Guidebook for the identification of woods used for ties and timber. 30¢.
- *Wood handbook. 25¢.

Marketing: Forest and Forest Products**Farmers' Bulletins:**

- *1210 F. Measuring and marketing farm timber. 5¢.
- *1459 F. Selling black-walnut timber. 5¢.

Circulars:

- 110 C. Specific gravity and Baumé gravity tables for turpentine. 5¢.
- 207 C. Deterioration of Christmas holly in transit and storage. 10¢.

Department Bulletins:

- *510 D. Timber storage conditions in the Eastern and Southern States with reference to decay problems. 25¢.
- *549 D. Crossties purchased and treated in 1915. 5¢.
- *711 D. Logging in the Douglas fir region. 30¢.

Department Circulars:

- *295 DC. Basic grading rules and working stresses for structural timbers. 5¢.

Miscellaneous Publications:

- *107 MP. An explanation of American lumber standards. 5¢.
- *185 MP. Guide to the grading of structural timbers and the determination of working stresses. 5¢.

Unnumbered:

- *Instructions for the scaling and measurement of national forest timber. 15¢.

HOME ECONOMICS*(See also Farm and Household Engineering)***CLOTHING AND TEXTILES***(See also Cotton; and Leather)***Farmers' Bulletins:**

- 1157 F. Waterproofing and mildewproofing of cotton duck. 5¢.
- 1449 F. Selection of cotton fabrics. 5¢.
- 1474 F. Stain removal from fabrics: Home methods. 5¢.
- 1497 F. Methods and equipment for home laundering. 5¢.
- 1523 F. Leather shoes: Selection and care. 5¢.
- 1530 F. Fitting dresses and blouses. 5¢.
- 1633 F. Window curtaining. 5¢.

Leaflets:

- 76 L. Slips covers. 5¢.
- 103 L. Quality guides in buying sheets and pillowcases. 5¢.
- 105 L. Quality guides in buying ready-made dresses. 5¢.
- 111 L. Quality guides in buying household blankets. 5¢.
- 117 L. Quality guides in buying women's cloth coats. 5¢.

For information in obtaining publications free and for sale, see p. 2,
How to Order.

*For sale only.

Miscellaneous Publications:

- *31 MP. The changing uses of textile fibers in clothing and household articles. 10¢.
- *62 MP. Bibliography on the relation of clothing to health. 25¢.
- *78 MP. An annotated list of literature references on garment sizes and body measurements. 10¢.
- 175 MP. Cotton bags as consumer packages for farm products. 5¢.
- 230 MP. Home dyeing with natural dyes. 5¢.

Technical Bulletins:

- 284 T. Some physical properties of starch pastes which affect their stiffening power on fabrics. 5¢.
- 310 T. The visual spectrophotometry of dyes. 5¢.
- *517 T. Cotton fabrics as affected by variations in pressure and in length of exposure during ironing. 5¢.

FOODS

(Includes food preparation and preservation on a commercial scale)

FOODS (GENERAL)**Circulars:**

- 138 C. Development and use of baking powder and baking chemicals. 5¢.
- *158 C. A simple chemical test for predetermining the culinary quality of potatoes as affected by the accumulation of soluble sugars. 10¢.
- 164 C. An apparatus for determining the tenderness of certain canned fruits and vegetables. 5¢.
- *179 C. Effect of heat treatment upon the quality of dry skim milk and condensed skim milk for ice cream. 5¢.

Miscellaneous Publications:

- 237 MP. Food plants of the North American Indians. 10¢.

Technical Bulletins:

- 241 T. Analyses and composition of California lemon and orange oils. 5¢.
- 534 T. Toxicity of food containing selenium as shown by its effect on the rat. 5¢.

NUTRITION**Farmers' Bulletins:**

- *712 F. School lunches. 5¢.
- 1674 F. Food for children. 5¢.
- 1705 F. Milk for the family. 5¢.
- 1757 F. Diets to fit the family income. 5¢.

Leaflets:

- 42 L. Good food habits for children. 5¢.

Circulars:

- *50 C. Proximate composition of fresh fruits. 5¢.
- *89 C. Nutritive value and cost of food served to college students. 5¢.
- *146 C. Proximate composition of fresh vegetables. 5¢.
- 205 C. The iron content of vegetables and fruits. 5¢.
- 230 C. Chemical composition of certain kinds of sausage and other meat food products. 5¢.

Department Bulletins:

- *310 D. Digestibility of some animal fats. 5¢.
- *505 D. Digestibility of some vegetable fats. 5¢.
- *507 D. Studies on the digestibility of some animal fats. 5¢.
- *612 D. The digestibility of the dasheen. 5¢.
- *613 D. Digestibility of certain miscellaneous animal fats. 5¢.
- *781 D. Digestibility of some by-product oils. 5¢.
- 1161 D. Effect of composition on the palatability of ice cream. 5¢.

Miscellaneous Circulars:

- *49 MC. A guide to good meals for the junior homemaker. 5¢.

Miscellaneous Publications:

- *113 MP. Adequate diets for families with limited incomes. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

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Yearbook Separates:

- *774 Y. Composition and food value of bottled soft drinks. 5¢.

Office of Experiment Stations Bulletins:

- *28 OES. Chemical composition of American food materials. 10¢.

Unnumbered:

- Getting the most for your food money.
Family food budgets for the use of relief agencies.
Protect yourself from pellagra by eating these foods.

Charts:

- *Child feeding. Set of 8 black and white charts, 15 by 23 inches. 25¢ per set.
*Composition of food material. Set of 15 colored charts, 24 by 18 inches. \$1.00 per set.
*Nutrition. Set of 11 black and white charts, 15 by 23 inches. 50¢ per set.
*Meat cooking. Set of 7 black and white charts, 20 by 30 inches. 50¢ per set.
*100 calorie portions of a few familiar foods: 1 chart, 23 by 17 inches showing pen and ink sketches of 20 foods. 10¢.

Posters:

- These foods prevent pellagra.

FOOD PREPARATION**Farmers' Bulletins:**

- 712 F. School lunches. 5¢.
876 F. Making butter on the farm. 5¢.
900 F. Homemade fruit butters. 5¢.
960 F. Neufchatel and cream cheese: Farm manufacture and use. 5¢.
1075 F. Unfermented grape juice: How to make it in the home. 5¢.
1236 F. Corn and its uses as food. 5¢.
1424 F. Making vinegar in the home and on the farm. 5¢.
1438 F. Making fermented pickles. 5¢.
*1450 F. Home baking. 5¢.
1451 F. Making and using cottage cheese in the home. 5¢.
1454 F. Home utilization of muscadine grapes. 5¢.
1617 F. Soybean utilization. 5¢.
1734 F. Making American cheese on the farm for home consumption. 5¢.

Leaflets:

- 9 L. Making and storing farm butter for winter use. 5¢.
17 L. Cooking beef according to the cut. 5¢.
28 L. Lamb as you like it. 5¢.
34 L. Trichinosis: A disease caused by eating raw pork. 5¢.
39 L. Eggs at any meal. 5¢.
45 L. Pork in preferred ways. 5¢.
48 L. Reindeer recipes. 5¢.
49 L. Ice creams frozen without stirring. 5¢.
*66 L. Rabbit recipes. 5¢.
74 L. Boning lamb cuts. 5¢.
81 L. Cooking cured pork. 5¢.
112 L. Cooking American varieties of rice. 5¢.
113 L. Honey and some of its uses. 5¢.

Circulars:

- *35 C. The commercial production of sauerkraut. 10¢.
265 C. Conserving food value, flavor, and attractiveness in cooking vegetables. 5¢.
384 C. Making and using peanut butter. 5¢.
*389 C. Production of sauer rüben. 5¢.

Department Bulletins:

- *319 D. Fermented milks. 5¢.
*469 D. Fats and their economical use in the home. 5¢.
608 D. Varieties of cheese: Descriptions and analyses. 15¢.
*656 D. Concord grape juice: Manufacture and chemical composition. 5¢.
*669 D. The manufacture of Neufchatel and cream cheese in the factory. 5¢.
*701 D. The chemical analysis of wheat-flour substitutes and of the breads made therefrom. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

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84 MISCELLANEOUS PUBLICATION NO. 60

Department Bulletins—Continued.

- *1075 D. The whipping quality of cream. 5¢.
- *1123 D. Proportioning the ingredients for ice cream and other frozen products by the balance method. 5¢.
- *1152 D. Soy and related fermentations. 15¢.
- *1323 D. Citrus pectin. 5¢.

Miscellaneous Publications:

- 119 MP. The manufacture of low-acid rennet-type cottage cheese. 5¢.
- 167 MP. A fruit and vegetable buying guide for consumers. 5¢.
- 213 MP. High-quality cream for butter making is easily produced by following 3 important steps. 5¢.
- 216 MP. Meat dishes at low cost. 5¢.

Technical Bulletins:

- *197 T. Milling and baking qualities of world wheats. 35¢.
- *440 T. Shrinkage and heat penetration during the roasting of lamb and mutton as influenced by carcass grade, ripening period, and cooking method. 5¢.
- 462 T. Composition of the developing asparagus shoot in relation to its use as a food product and as material for canning. 5¢.
- *507 T. The cooking quality, palatability, and carbohydrate composition of potatoes as influenced by storage temperature. 5¢.

Unnumbered:

- *Aunt Sammy's radio recipes, revised. 15¢.

Charts:

- *Meat cooking. Set of 7 black and white charts, 20 by 30 inches. 50¢ per set.

Posters:

- Cook pork and its products thoroughly.

FOOD PRESERVATION

Farmers' Bulletins:

- 879 F. Home storage of vegetables. 5¢.
- 976 F. Cooling milk and cream on the farm. 5¢.
- 984 F. Farm and home drying of fruits and vegetables. 5¢.
- 1075 F. Unfermented grape juice: How to make it in the home. 5¢.
- 1186 F. Pork on the farm: Killing, curing, and canning. 5¢.
- 1231 F. Drying crude drugs. 5¢.
- 1374 F. Care of food in the home. 5¢.
- 1415 F. Beef on the farm: Slaughtering, cutting, curing. 5¢.
- 1424 F. Making vinegar in the home and on the farm. 5¢.
- 1438 F. Making fermented pickles. 5¢.
- 1454 F. Home utilization of muscadine grapes. 5¢.
- 1762 F. Home canning of fruits, vegetables, and meats. 5¢.

Leaflets:

- 9 L. Making and storing farm butter for winter use. 5¢.

Circulars:

- *35 C. The commercial production of sauerkraut. 10¢.
- 375 C. Varietal suitability of peaches for preserve making and factors affecting the quality of the product. 5¢.
- 384 C. Making and using peanut butter. 5¢.

Department Bulletins:

- *215 D. Composition of corn (maize) meal manufactured by different processes and the influence of composition on the keeping qualities. 5¢.
- *342 D. The present status of the pasteurization of milk. 5¢.
- *569 D. The sanitary control of tomato-canning factories. 5¢.
- *656 D. Concord grape juice: Manufacture and chemical composition. 5¢.
- *928 D. Substitutes for sucrose in curing meats. 5¢.
- *956 D. A study of the factors affecting temperature changes in the container during the canning of fruits and vegetables. 15¢.
- *1009 D. Volume variation of bottled foods. 5¢.
- *1158 D. Production of sirup from sweet potatoes. 10¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

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Department Bulletins—Continued.

- *1265 D. Scalding, precooking, and chilling as preliminary canning operations. 10¢.
- *1307 D. Absorption and retention of hydrocyanic acid by fumigated food products. Part II. 5¢.
- *1323 D. Citrus pectin. 5¢.

Technical Bulletins:

- *84 T. Preservation of peaches for use in the manufacture of ice cream. 5¢.
- *97 T. Relation of kernel density to table and canning quality in different varieties of maize. 5¢.
- 148 T. The frozen-pack method of preserving berries in the Pacific Northwest. 10¢.
- *159 T. Keeping quality of butter made from cream of various acidities. 5¢.
- *193 T. Experiments on the processing and storing of Deglet Noor dates in California. 15¢.
- *196 T. The canning quality of certain commercially important eastern peaches. 10¢.
- 450 T. Relation of maturity and handling of Bartlett pears in the Pacific Northwest to quality of the canned product. 5¢.
- 462 T. Composition of the developing asparagus shoot in relation to its use as a food product and as material for canning. 5¢.

Yearbook Separates:

- *569 Y. Decomposition and its microscopical detection in some food products. 5¢.

Charts:

- *Household refrigeration. Set of 6 black and white charts, 16 by 20 inches. 20¢ per set.

Food and Drug Administration Service and Regulatory Announcements:

Apply direct to the Food and Drug Administration, U. S. Department of Agriculture, Washington, D. C., for the following:

Food and drug:

- 2 Definitions and standards for food products. 1933.
- 3 Certification of coal-tar food colors. 1931.

HEALTH AND SANITATION**Farmers' Bulletins:**

- 450 F. Some facts about malaria. 5¢.
- 602 F. Production of clean milk. 5¢.
- 926 F. Some common disinfectants. 5¢.
- 1166 F. Poison ivy and poison sumac and their eradication. 5¢.
- 1227 F. Sewage and sewerage of farm homes. 5¢.
- 1315 F. Cleaning milking machines. 5¢.
- 1675 F. Care of milk utensils on the farm. 5¢.

Leaflets:

- 3 L. Improved sanitation in milk production. 5¢.
- 34 L. Trichinosis: A disease caused by eating raw pork. 5¢.
- 95 L. How to control ragweed: The principal cause of autumn hay fever. 5¢.

Circulars:

- *46 C. Methods of collecting and preserving pollen for use in the treatment of hay fever. 5¢.
- *198 C. United States Food and Drug Administration methods of testing antiseptics and disinfectants. 10¢.

Department Bulletins:

- *569 D. The sanitary control of tomato-canning factories. 5¢.
- *1098 D. Impounding water in a bayou to control breeding of malaria mosquitoes. 15¢.
- *1389 D. Deterioration of commercially packed chlorinated lime. 5¢.

Yearbook Separates:

- *725 Y. The house rat: The most destructive animal in the world. 5¢.
- *726 Y. Rest rooms for women in marketing centers. 5¢.

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*For sale only.

Unnumbered:

Protect yourself from pellagra by eating these foods.

Posters:

Cook pork and its products thoroughly.

Household insects
Farmers' Bulletins:

- 627 F. The house centipede. 5¢.
- *658 F. Cockroaches. 5¢.
- *734 F. Flytraps and their operation. 5¢.
- *740 F. House ants: Kinds and methods of control. 5¢.
- *754 F. The bedbug. 5¢.
- 799 F. Carbon disulphid as an insecticide. 5¢.
- 897 F. Fleas and their control. 5¢.
- 1101 F. The Argentine ant as a household pest. 5¢.
- 1104 F. Book-lice or psocids: Annoying household pests. 5¢.
- 1346 F. Carpet beetles and their control. 5¢.
- 1353 F. Clothes moths and their control. 5¢.
- 1354 F. The yellow-fever mosquito. 5¢.
- 1408 F. The house fly and how to suppress it. 5¢.
- 1570 F. Mosquito remedies and preventives. 5¢.
- 1655 F. The control of moths in upholstered furniture. 10¢.
- *1665 F. The silverfish as a pest of the household. 5¢.
- *1670 F. Hydrocyanic acid gas as a fumigant for destroying household insects. 5¢.

Circulars:

- *387 C. Distribution of the Argentine ant in the United States and suggestions for its control or eradication. 5¢.

Department Circulars:

- *288 DC. The puss caterpillar and the effects of its sting on man. 5¢.
- *294 DC. The rat mite attacking man. 5¢.

HOUSEHOLD EQUIPMENT
Farmers' Bulletins:

- *927 F. Farm home conveniences. 5¢.
- 1219 F. Floors and floor coverings. 5¢.
- 1460 F. Simple plumbing repairs in the home. 5¢.
- 1497 F. Methods and equipment for home laundering. 5¢.
- 1513 F. Convenient kitchens. 5¢.
- 1633 F. Window curtaining. 5¢.
- 1698 F. Heating the farm home. 5¢.

Leaflets:

- 76 L. Slip covers. 5¢.

Circulars:

- 335 C. Distillate burners. 5¢.

Department Circulars:

- 405 DC. The domestic oil burner. 10¢.

Charts:

- *The convenient kitchen. Set of black and white charts, 16 by 20 inches. 50¢ per set.

HOUSEHOLD MANAGEMENT
Farmers' Bulletins:

- 1219 F. Floors and floor coverings. 5¢.
- 1497 F. Methods and equipment for home laundering. 5¢.
- 1553 F. Planning and recording family expenditures. 5¢.
- 1757 F. Diets to fit the family income. 5¢.

Leaflets:

- 103 L. Quality guides in buying sheets and pillowcases. 5¢.
- 111 L. Quality guides in buying household blankets. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Miscellaneous Publications:

- *113 MP. Adequate diets for families with limited incomes. 5¢.
- 167 MP. A fruit and vegetable buying guide for consumers. 5¢.
- *193 MP. Present guides for household buying. 5¢.
- *223 MP. Studies of family living in the United States and other countries: An analysis of material and method. 60¢.

Technical Bulletins:

- *386 T. Comparison of schedule and account methods of collecting data on family living. 5¢.

Unnumbered:

- *Farm family account book. 15¢.

LEATHER**Farmers' Bulletins:**

- 1334 F. Home tanning of leather and small fur skins. 5¢.
- 1523 F. Leather shoes: Selection and care. 5¢.

Leaflets:

- 69 L. Preservation of leather bookbindings. 5¢.

Technical Bulletins:

- 169 T. The wearing quality and other properties of vegetable-tanned and of chrome-retanned sole leather. 5¢.

INSECTS

(See also Bees and Honey; and animal or crop attacked)

Farmers' Bulletins:

- *557 F. The potato-tuber moth. 5¢.
- 627 F. The house centipede. 5¢.
- *650 F. The San Jose scale and its control. 5¢.
- *658 F. Cockroaches. 5¢.
- 662 F. The apple-tree tent caterpillar. 5¢.
- *668 F. The squash-vine borer. 5¢.
- 675 F. The roundheaded apple-tree borer. 5¢.
- 701 F. The bagworm, an injurious shade-tree insect. 5¢.
- 705 F. The catalpa sphinx. 5¢.
- 708 F. The leopard moth: A dangerous imported insect enemy of shade trees. 5¢.
- 713 C. Sheep scab. 5¢.
- *721 F. The rose-chaffer: A destructive garden and vineyard pest. 5¢.
- *722 F. The leaf blister mite of pear and apple. 5¢.
- *723 F. The oyster-shell scale and the scurfy scale. 5¢.
- *725 F. Wireworms destructive to cereal and forage crops. 5¢.
- 731 F. The true army worm and its control. 5¢.
- *734 F. Flytraps and their operation. 5¢.
- *740 F. House ants: Kinds and methods of control. 5¢.
- *752 F. The fall army worm, or "grass worm", and its control. 5¢.
- *754 F. The bedbug. 5¢.
- *762 F. The false chinch bug and measures for controlling it. 5¢.
- 763 F. Orchard barkbeetles and pinhole borers, and how to control them. 5¢.
- 798 F. The sheep tick and its eradication by dipping. 5¢.
- 801 F. Mites and lice on poultry. 5¢.
- 831 F. The red spider on cotton and how to control it. 5¢.
- 835 F. How to detect outbreaks of insects and save the grain crops. 5¢.
- *837 F. The asparagus beetles and their control. 5¢.
- 846 F. The tobacco beetle and how to prevent damage by it. 5¢.
- 875 F. The rough-headed corn stalk-beetle in the Southern States and its control. 5¢.
- 891 F. The corn root-aphis and methods of controlling it. 5¢.
- 897 F. Fleas and their control. 5¢.
- 909 F. Cattle lice and how to eradicate them. 5¢.
- *915 F. How to reduce weevil waste in southern corn. 5¢.
- 940 F. Common white grubs. 5¢.
- 944 F. Controlling the garden webworm in alfalfa fields. 5¢.
- *950 F. The southern corn rootworm and farm practices to control it. 5¢.
- 959 F. The spotted garden slug. 5¢.
- 971 F. The control of the clover-flower midge. 5¢.

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Farmers' Bulletins—Continued.

- 980 F. The spinose ear tick and methods of treating infested animals. 5¢.
- 982 F. Control of the green clover worm in alfalfa fields. 5¢.
- 1003 F. How to control billbugs destructive to cereal and forage crops. 5¢.
- 1006 F. The wheat jointworm and its control. 5¢.
- *1011 F. The woolly white fly in Florida citrus groves. 5¢.
- 1017 F. Cattle scab and methods of control and eradication. 5¢.
- 1025 F. The larger corn stalk-borer. 5¢.
- 1029 F. Conserving corn from weevils in the Gulf Coast States. 5¢.
- 1057 F. Cattle-fever ticks and methods of eradication. 5¢.
- 1065 F. The flat-headed apple-tree borer. 5¢.
- 1070 F. The fowl tick and how premises may be freed from it. 5¢.
- *1076 F. California oak worm. 5¢.
- 1085 F. Hog lice and hog mange, methods of control and eradication. 5¢.
- 1094 F. The alfalfa caterpillar. 5¢.
- 1097 F. The stable fly: How to prevent its annoyance and its losses to live stock. 5¢.
- 1101 F. The Argentine ant as a household pest. 5¢.
- 1104 F. Book-lice or psocids: Annoying household pests. 5¢.
- *1128 F. Control of aphids injurious to orchard fruits, currant, gooseberry, and grape. 5¢.
- *1140 F. Grasshopper control in the Pacific States. 5¢.
- *1154 F. The aspen borer and how to control it. 5¢.
- 1156 F. Angoumois grain moth. 5¢.
- 1169 F. Insects injurious to deciduous shade trees and their control. 10¢.
- *1193 F. The beet leaf-beetle and its control. 5¢.
- *1197 F. Protection of mesquite cordwood and posts from borers. 5¢.
- *1206 F. The corn earworm as an enemy of vetch. 5¢.
- 1217 F. The green-bug or spring grain-aphis: How to prevent its periodical outbreaks. 5¢.
- 1246 F. The peach borer: How to prevent or lessen its ravages; the paradichlorobenzene treatment. 5¢.
- 1252 F. Sawflies injurious to rose foliage. 5¢.
- 1257 F. Insects injurious to the mango in Florida and how to combat them. 5¢.
- 1258 F. Webworms injurious to cereal and forage crops and their control. 5¢.
- 1259 F. A sawfly injurious to young pines. 5¢.
- 1260 F. Stored-grain pests. 5¢.
- 1261 F. The avocado: Its insect enemies and how to combat them. 5¢.
- 1275 F. Weevils in beans and peas. 5¢.
- *1286 F. The red-necked raspberry cane-borer. 5¢.
- 1306 F. Insect enemies of chrysanthemums. 5¢.
- 1309 F. Control of the common mealybug on citrus in California. 5¢.
- 1323 F. The wheat strawworm and its control. 5¢.
- 1326 F. Control of the codling moth in the Pacific Northwest. 5¢.
- 1329 F. The boll-weevil problem. 5¢.
- *1344 F. The strawberry rootworm as an enemy of the greenhouse rose. 5¢.
- 1346 F. Carpet beetles and their control. 5¢.
- *1353 F. Clothes moths and their control. 5¢.
- 1354 F. The yellow-fever mosquito. 5¢.
- 1362 F. Insects injurious to ornamental greenhouse plants. 10¢.
- *1408 F. The house fly and how to suppress it. 5¢.
- *1425 F. The tobacco flea-beetle in the dark fire-cured tobacco district of Kentucky and Tennessee. 5¢.
- *1462 F. The potato leafhopper and how to control it. 5¢.
- 1472 F. Preventing damage by termites or white ants. 5¢.
- *1483 F. Control of insect pests in stored grain. 10¢.
- 1484 F. The clover leaf weevil and its control. 5¢.
- 1489 F. The green June beetle larva in tobacco plant beds. 5¢.
- 1494 F. Tobacco cutworms and their control. 5¢.
- 1495 F. Insect enemies of the flower garden. 5¢.
- 1498 F. The chinch bug and how to fight it. 5¢.
- 1499 F. The melon aphid and its control. 5¢.
- 1514 F. Control of sugar-beet nematode by crop rotation. 5¢.
- 1528 F. The control of the alfalfa weevil. 5¢.
- 1531 F. The tobacco budworm and its control in the Georgia and Florida tobacco-growing region. 5¢.

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How to Order.

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Farmers' Bulletins—Continued.

- 1543 F. Insects injurious to the rice crop. 5¢.
 1548 F. The European corn borer: Its present status and methods of control. 5¢.
 1557 F. Insects attacking the peach in the South and how to control them. 5¢.
 1561 F. The Porto Rican mole cricket. 5¢.
 1566 F. The sorghum midge, with suggestions for control. 5¢.
 1569 F. Earthworms as pests and otherwise. 5¢.
 *1595 F. The bollworm or corn ear worm as a cotton pest. 5¢.
 1596 F. Cattle grubs or heel flies, with suggestions for their control. 5¢.
 1601 F. Collection and preservation of insects for use in the study of agriculture. 5¢.
 *1623 F. The gipsy moth and the browntail moth. 5¢.
 1624 F. The Mexican bean beetle in the East and its control. 5¢.
 1625 F. Tick fever. 5¢.
 1627 F. The hessian fly and how losses from it can be avoided. 5¢.
 1651 F. The corn earworm as an enemy of field corn in the Eastern States. 5¢.
 1654 F. Insects of the pecan and how to combat them. 5¢.
 *1655 F. The control of moths in upholstered furniture. 10¢.
 *1665 F. The silverfish as a pest of the household. 5¢.
 1668 F. The red harvester ant and how to subdue it. 5¢.
 1688 F. Insect enemies of the cotton plant. 5¢.
 1691 F. How to control grasshoppers in cereal and forage crops. 5¢.
 1712 F. The harlequin bug and its control. 5¢.
 1729 F. Machinery for dusting cotton. 5¢.

Leaflets:

- 13 L. Sheep and goat lice: Methods of control and eradication. 5¢.
 *37 L. Poisoning the cotton boll weevil. 5¢.
 53 L. Cotton-louse control. 5¢.
 101 L. Injury to buildings by termites. 5¢.

Circulars:

- *14 C. Status of imported parasites of the European corn borer. 5¢.
 *18 C. Experimental dissemination of the tabanid egg parasite, *Phanurus emersoni*, Girault, and biological notes on the species. 5¢.
 *51 C. The chinch bug in relation to St. Augustine grass. 5¢.
 *71 C. Heat and time of exposure necessary to kill larvae of the European corn borer in ear corn. 5¢.
 *75 C. The true cricket: A serious cotton pest in California. 5¢.
 *109 C. Parasitism of the Mediterranean fruit fly in Hawaii, 1922-1924. 5¢.
 *117 C. The Asiatic beetle: A serious pest in lawns. 5¢.
 *130 C. Traps for the Japanese beetle. 5¢.
 *145 C. *Tiphia popillivora* Rohwer: A parasite of the Japanese beetle. 10¢.
 *157 C. Fig insects in California. 20¢.
 168 C. Insects injurious to agriculture in Japan. 20¢.
 176 C. Observations on the satin moth and its natural enemies in central Europe. 5¢.
 194 C. Manure piles and feed lots as sources of European corn borer reinfestation. 5¢.
 *196 C. The blueberry maggot and its control in eastern Maine. 5¢.
 221 C. The white-pine weevil. 5¢.
 224 C. Two destructive defoliators of lodgepole pine in the Yellowstone National Park. 5¢.
 226 C. Control of the turpentine borer in the naval stores region. 5¢.
 *227 C. Reactions of the Japanese beetle to spray deposits on foliage. 5¢.
 229 C. Weedy abandoned lands and the weed hosts of the beet leaf hopper. 5¢.
 234 C. Black pit of the pecan and some insects causing it. 5¢.
 *235 C. Injury to peach fruits by gipsy-moth larvae. 5¢.
 237 C. Control of the Japanese beetle on fruit and shade trees. 5¢.
 *238 C. Control of larvae of the Japanese and Asiatic beetles in lawns and golf courses. 5¢.
 *241 C. Leaf hoppers injurious to cereal and forage crops. 5¢.
 *244 C. Movements of the beet leaf hopper in 1930 in southern Idaho. 5¢.
 246 C. Life history and control of the Asiatic garden beetle. 5¢.
 247 C. A box-type trap to aid in the control of eye gnats and blow-flies. 5¢.

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Circulars—Continued.

- 248 C. Sod webworms and their control in lawns and golf greens. 5¢.
- *255 C. Observations on the Mexican fruit fly and some related species in Cuernavaca, Mexico, in 1928 and 1929. 5¢.
- *266 C. The citrus insects of tropical Asia. 5¢.
- *269 C. A pest of cured tobacco, *Ephestia elutella* Hubner. 5¢.
- 270 C. Orchard insects of the Pacific Northwest and their control. 10¢.
- 275 C. The infestation of corn ears by the European corn borer, and cribbed corn as an auxiliary source of infestation. 5¢.
- *277 C. The oriental moth (*Cnidocampa flavescens* Walk.) and its control. 5¢.
- *281 C. The survival of European corn-borer larvae in barns and other storage places. 5¢.
- *287 C. Burning for the control of aphids on alfalfa in the Antelope Valley of California. 5¢.
- *289 C. Observations on the European corn borer and its major parasites in the Orient. 5¢.
- 295 C. The obscure scale on the pecan and its control. 5¢.
- *301 C. The cyclamen mite and the broad mite and their control. 5¢.
- 302 C. Fight grasshoppers by plowing stubble. 5¢.
- 305 C. The boxwood leaf miner and its control. 5¢.
- 307 C. Control of aphids on alfalfa in the Antelope Valley, Calif. 5¢.
- 317 C. Protection of orchard and shade trees and ornamental shrubs from injury by the Japanese beetle. 5¢.
- 321 C. Use of farm machinery for corn-borer control in the one-generation area. 5¢.
- 326 C. Protecting plants in the home yard from injury by the Japanese beetle. 5¢.
- 332 C. General information about the Japanese beetle in the United States. 5¢.
- 334 C. Characters useful in distinguishing larvae of *Popillia japonica* and other introduced Scarabaeidae from native species. 5¢.
- 346 C. Insect parasites and predators of insect pests. 5¢.
- *349 C. The disposal by burial of fruit infested with larvae of the Mexican fruit fly. 5¢.
- *356 C. Trapping experiments for the control of the cigarette beetle. 5¢.
- *365 C. The camphor scale. 5¢.
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- *1269 D. Relation of land tenure to plantation organization. 15¢.
- *1292 D. Field and crop labor on Georgia farms (coastal plain area). 5¢.
- *1293 D. Tillage and rotation experiments at Dickinson, Hettinger, and Williston, N. Dak. 5¢.
- *1304 D. Crop rotation and cultural methods at the Akron (Colo.) Field Station. 5¢.
- *1310 D. Experiments with fallow in north-central Montana. 5¢.
- *1345 D. Saltbushes and their allies in the United States. 15¢.

Department Circulars:

- *150 DC. Statistical data compiled and published by the Bureau of Crop Estimates, 1863-1920. 10¢.
- *183 DC. Seedtime and harvest: A graphic summary of seasonal work on farm crops. 15¢.
- *277 DC. Crop tests at the Cooperative Testing Station, Sacaton, Ariz. 10¢.
- *299 DC. Quarantine procedure to safeguard the introduction of citrus plants: A system of aseptic plant propagation. 5¢.
- *310 DC. The solar propagating frame for rooting citrus and other subtropical plants. 5¢.
- *323 DC. How to collect, label, and pack living plant material for long-distance shipment. 5¢.
- *373 DC. Revised estimates of crop acreages, New York, 1862-1919. 5¢.

Miscellaneous Circulars:

- *81 MC. The relation between crop yields and precipitation in the Great Plains area. 30¢. Supplement No. 1: Crop rotations and tillage methods. 50¢.

Miscellaneous Publications:

- *110 MP. Glossary of botanical terms commonly used in range research. 15¢.
- 118 MP. The influence of weather on crops: 1900-1930. A selected and annotated bibliography. 40¢.
- 171 MP. The crop and livestock reporting service of the United States. 15¢.
- *189 MP. Synopsis of Federal plant quarantines affecting interstate shipments in effect January 1, 1934. 10¢.
- 194 MP. A pasture handbook. 10¢.
- 200 MP. Manual of the grasses of the United States. \$1.75.
- 237 MP. Food plants of the North American Indians. 10¢.

Statistical Bulletins:

- *24 S. Statistics of fats, oils, and oleaginous raw materials. 15¢.

Technical Bulletins:

- *2 T. Irrigated crop rotations in western Nebraska. 5¢.
- 16 T. Methods of extracting volatile oils from plant material and the production of such oils in the United States. 10¢.
- *71 T. A simple method for determining the oil content of seeds and other oil-bearing material. 5¢.
- *75 T. Crop-plant stimulation with paper mulch. 10¢.
- *102 T. Types of farming in North Dakota. 15¢.

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Technical Bulletins—Continued.

- *133 T. Flax cropping in mixture with wheat, oats, and barley. 10¢.
- *144 T. Irrigated crop rotations in southern Montana. 10¢.
- *221 T. Wild-duck foods of North Dakota lakes. 15¢.
- *264 T. Boron in irrigation waters. 20¢.
- 287 T. Farm-management problems in shifting from sack to bulk handling of grain in the Pacific Northwest. 15¢.
- *299 T. Repellency to the Japanese beetle of extracts made from plants immune to attack. 5¢.
- 311 T. Adequacy and reliability of crop-yield estimates. 10¢.
- *330 T. Rotation and tillage experiments at the Lawton (Okla.) Field Station, 1917-1930. 5¢.
- *367 T. The use of winter legumes in the Southeastern States. 5¢.
- *483 T. Effect of alfalfa and farm manure on yields of irrigated crops in the Great Plains. 10¢.
- *490 T. Explosibility of agricultural and other dusts as indicated by maximum pressure and rates of pressure rise. 5¢.
- 512 T. Irrigated crop rotations in western Nebraska, 1912-34. 5¢.

Yearbook Separates:

- *811 Y. Why produce inspection pays. 5¢.
- *1106 Y. Statistics of miscellaneous crops, 1930. 10¢.
- *1147 Y. Crop and livestock production trends. (1931.) 10¢.
- *1151 Y. Statistics of miscellaneous crops. (1931.) 10¢.
- 1481 Y. Statistics of miscellaneous crops. (1935.) 5¢.

Unnumbered:

General requirements for interstate trade in nursery stock.

Bureau of Agricultural Economics Service and Regulatory Announcements:

- Apply direct to the Bureau of Agricultural Economics, U. S. Department of Agriculture, Washington, D. C., for the following:
- 104 Rules and regulations of the Secretary of Agriculture under the United States Standard Container Act of August 31, 1916.
 - 116 Rules and regulations of the Secretary of Agriculture under the United States Standard Container Act of 1928.

Food and Drug Administration Service and Regulatory Announcements:

- Apply direct to the Food and Drug Administration, U. S. Department of Agriculture, Washington, D. C., for the following:
- Food and drug:
- 2 Definitions and standards for food products. 1933. Supplements 1-4.

Diseases: Crops (General)

(See also specific crop)

Farmers' Bulletins:

- 994 F. Commercial Bordeaux mixtures: How to calculate their values. 5¢.
- 1345 F. Root-knot: Its cause and control. 5¢.

Department Bulletins:

- *1229 D. The stem nematode *Tylenchus dipsaci* on wild hosts in the Northwest. 5¢.
- *1417 D. Ozonium root rot. 15¢.

Technical Bulletins:

- 313 T. Studies on physiologic specialization in *Puccinia triticina*. 10¢.

Insects and Other Pests: Crops (General)

(See also specific crop)

Farmers' Bulletins:

- 702 F. Cottontail rabbits in relation to trees and farm crops. 5¢.
- *762 F. The false chinch bug and measures for controlling it. 5¢.
- 799 F. Carbon disulphid as an insecticide. 5¢.
- 940 F. Common white grubs. 5¢.
- *1140 F. Grasshopper control in the Pacific States. 5¢.
- *1397 F. Mouse control in field and orchard. 5¢.

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Farmers' Bulletins—Continued.

- 1472 F. Preventing damage by termites or white ants. 5¢.
 1498 F. The chinch bug and how to fight it. 5¢.
 1561 F. The Porto Rican mole cricket. 5¢.
 1566 F. The sorghum midge, with suggestions for control. 5¢.
 1627 F. The hessian fly and how losses from it can be avoided. 5¢.
 1668 F. The red harvester ant and how to subdue it. 5¢.

Circulars:

- *130 C. Traps for the Japanese beetle. 5¢.
 *145 C. *Tiphia popilliavora* Rohwer: A parasite of the Japanese beetle. 10¢.
 *175 C. Experiments for the control of the San Jose scale with lubricating oil emulsions in the Pacific Northwest. 5¢.
 *227 C. Reactions of the Japanese beetle to spray deposits on foliage. 5¢.
 237 C. Control of the Japanese beetle on fruit and shade trees. 5¢.
 *238 C. Control of larvae of the Japanese and the Asiatic beetles in lawns and golf courses. 5¢.
 *244 C. Movements of the beet leaf hopper in 1930 in southern Idaho. 5¢.
 246 C. Life history and control of the Asiatic garden beetle. 5¢.
 *280 C. Contact sprays for the Japanese beetle. 5¢.
 *301 C. The cyclamen mite and the broad mite and their control. 5¢.
 302 C. Fight grasshoppers by plowing stubble. 5¢.
 317 C. Protection of orchard and shade trees and ornamental shrubs from injury by the Japanese beetle. 5¢.
 326 C. Protecting plants in the home yard from injury by the Japanese beetle. 5¢.
 332 C. General information about the Japanese beetle in the United States. 5¢.
 334 C. Characters useful in distinguishing larvae of *Popillia japonica* and other introduced Scarabaeidae from native species. 5¢.
 *351 C. Notes on the habits of certain coprophagous beetles and methods of rearing them. 5¢.
 *369 C. Industrial fumigation against insects. 5¢.
 *373 C. Fumigation of fresh fruit to destroy the adult Japanese beetle. 5¢.
 *376 C. New equipment for obtaining host material for the mass production of *Trichogramma minutum*, and egg parasite of various insect pests. 5¢.

Department Bulletins:

- *689 D. The Southern green plant-bug. 10¢.
 *779 D. The grain bug. 5¢.
 *914 D. The red-banded leaf-roller. 5¢.
 *1008 D. Rate of multiplication of the hessian fly. 5¢.
 *1076 D. Biology of the lotus borer (*Pyrausta penitalis* Grote). 5¢.
 *1154 D. Feeding habits of the Japanese beetle which influence its control. 5¢.
 *1371 D. Effectiveness against the San Jose scale of the dry substitutes for liquid lime-sulphur. 5¢.
 *1429 D. The parasites of *Popillia japonica* in Japan and Chosen (Korea) and their introduction into the United States. 15¢.
 *1476 D. A progress report on the investigations of the European corn borer. 35¢.

Department Circulars:

- *288 DC. The puss caterpillar and the effects of its sting on man. 5¢.

Miscellaneous Publications:

- 201 MP. Traps for the Japanese beetle and how to use them. 5¢.
 *226 MP. The tobacco and *Solanum* weevils of the genus *Trichobaris*. 5¢.

Technical Bulletins:

- *31 T. The larger sod webworm. 5¢.
 *34 T. The fall army worm. 25¢.
 *41 T. The sugar-cane moth borer in the United States. 25¢.
 *42 T. Life history of the codling moth in Delaware. 15¢.
 *53 T. Scouting, quarantine, and control for the European corn borer, 1917-1926. 30¢.
 *77 T. The host plants of the European corn borer in New England. 30¢.
 *81 T. The hessian fly in California. 5¢.

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Technical Bulletins—Continued.

- *86 T. Imported insect enemies of the gipsy moth and the brown-tail moth. 50¢.
- *89 T. Biology of the European red mite in the Pacific Northwest. 15¢.
- *95 T. The meal worms. 10¢.
- *138 T. Studies on the fall army worm in the Gulf Coast district of Texas. 10¢.
- 161 T. Life history, habits, and control of the Mormon cricket. 10¢.
- *162 T. Tests of various aliphatic compounds as fumigants. 10¢.
- *190 T. A study of the lesser migratory grasshopper. 10¢.
- *198 T. Relative insecticidal value of commercial grades of pyrethrum. 5¢.
- 253 T. Petroleum oils and oil emulsions as insecticides, and their use against the San Jose scale on peach trees in the South. 10¢.
- 255 T. Life history of the codling moth in the Rogue River Valley of Oregon. 10¢.
- 274 T. Hot water as an insecticide for the Japanese beetle in soil and its effect on the roots of nursery plants. 15¢.
- 299 T. Repellency to the Japanese beetle of extracts made from plants immune to attack. 5¢.
- 308 T. Biology of some Japanese and Chosenese grub parasites (Scoliidæ). 5¢.
- 325 T. Biology and control of the black vine weevil. 5¢.
- *361 T. The hessian fly in the Pacific Northwest. 5¢.
- *366 T. Further investigations of the parasites of *Popillia japonica* in the Far East. 5¢.
- *373 T. Studies of fluorine compounds for controlling the codling moth. 5¢.
- *427 T. The use of naphthalene against the Japanese beetle. 10¢.
- *501 T. Relation between the physical properties and chemical components of various grades of geraniol and their attractiveness to the Japanese beetle. 5¢.

Marketing: Crops (General)

(See also specific crop)

Farmers' Bulletins:

- 1232 F. Seed marketing hints for the farmer. 5¢.
- 1551 F. Marketing farm produce by parcel post. 5¢.

Leaflets:

- 68 L. Roadside markets. 5¢.

Department Circulars:

- *323 DC. How to collect, label, and pack living plant material for long-distance shipment. 5¢.

Technical Bulletins:

- *154 T. A method for determining the color of agricultural products. 10¢.

DRUG AND RELATED PLANTS

Farmers' Bulletins:

- 304 F. Growing and curing hops. 5¢.
- 613 F. Goldenseal under cultivation. 5¢.
- 663 F. Drug plants under cultivation. 10¢.
- 1184 F. Ginseng culture. 5¢.
- 1231 F. Drying crude drugs. 5¢.
- 1555 F. Peppermint and spearmint as farm crops. 5¢.

Circulars:

- *46 C. Methods of collecting and preserving pollen for use in the treatment of hay-fever. 5¢.
- 366 C. Safflower, a possible new oil-seed crop for the northern Great Plains and the far Western States. 5¢.

Department Bulletins:

- *306 D. Some effects of selection on the production of alkaloids in belladonna. 5¢.
- *442 D. Possibility of the commercial production of lemon-grass oil in the United States. 5¢.

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Department Bulletins—Continued.

- *568 D. The presence of arsenic in hops. 5¢.
- *706 D. American sumac: A valuable tanning material and dyestuff. 5¢.
- *867 D. The castor-oil industry. 10¢.
- *1201 D. Plants tested for or reported to possess insecticidal properties. 10¢.
- *1286 D. South American leaf disease of Para rubber. 10¢.
- *1380 D. A pathological survey of the Para rubber tree (*Hevea brasiliensis*) in the Amazon Valley. 50¢.
- *1422 D. The Hevea rubber tree in the Amazon Valley. 15¢.

Miscellaneous Publications:

- 77 MP. American medicinal plants of commercial importance. 30¢.

Statistical Bulletins:

- *24 S. Statistics of fats, oils, and oleaginous raw materials. 15¢.

Technical Bulletins:

- 16 T. Methods of extracting volatile oils from plant material and the production of such oils in the United States. 10¢.
- *65 T. Experimental tapping of Hevea rubber trees at Bayeux, Haiti, 1924-25. 5¢.
- *71 T. A simple method for determining the oil content of seeds and other oil-bearing materials. 5¢.
- *378 T. Commercial possibilities of Japanese mint in the United States as a source of natural menthol. 5¢.
- 457 T. The rubber content of two species of *Cryptostegia* and of an interspecific hybrid in Florida. 10¢.
- *472 T. The desert milkweed (*Asclepias subulata*) as a possible source of rubber. 5¢.

Diseases: Drug and Related Plants**Farmers' Bulletins:**

- 736 F. Ginseng diseases and their control. 5¢.

Yearbook Separates:

- *1505 Y. Downy mildew of hops causing serious damage: Control studies under way. 5¢.

Insects and Other Pests: Drug and Related Plants**Department Bulletins:**

- 1225 D. The camphor thrips. 10¢.

Marketing: Drug and Related Plants**Miscellaneous Circulars:**

- *9 MC. Importation and inspection of tea. 5¢.

DRY LAND FARMING

(See also Crop Culture: General)

Farmers' Bulletins:

- *878 F. Grains for western North and South Dakota. 5¢.
- 1126 F. Sudan grass. 5¢.
- 1158 F. Growing and utilizing sorghums for forage. 5¢.
- 1162 F. Proso or hog millet. 5¢.
- *1163 F. Dry farming in western South Dakota. 5¢.
- 1358 F. Growing rye in western half of the United States. 5¢.
- *1511 F. Forage crops and their culture in northern Nebraska and the Dakotas. 5¢.
- 1545 F. Dry farming methods and practices in wheat growing in Columbia and Snake River Basins. 5¢.
- *1577 F. Harvesting grain sorghums. 5¢.
- 1611 F. Oats in the western half of the United States. 5¢.
- 1631 F. Broomcorn growing and handling. 5¢.
- 1650 F. Flaxseed production by power farming methods in northern Great Plains. 5¢.

Circulars:

- *4 C. Settlers' progress in dry-land farming in eastern New Mexico. 10¢.

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Circulars—Continued.

- *70 C. Work of the Huntley Field Station, Mont., 1925 to 1926. 10¢.
- 183 C. Crop rotation and tillage experiments at the San Antonio (Tex.) Field Station. 10¢.
- *184 C. Methods of crop production at the Colby (Kans.) branch experiment station, 1915-1929. 5¢.
- *202 C. Agronomic work at the Big Spring (Tex.) Field Station, 1915-1929. 5¢.
- 213 C. Summer fallow at Ardmore, S. Dak. 5¢.

Department Bulletins:

- *151 D. Experiments in crop production on fallow land at San Antonio, Tex. 5¢.
- *157 D. Tillage and rotation experiments at Nephi, Utah. 5¢.
- *270 D. Cereal experiments at Williston station. 10¢.
- *297 D. Cereal investigations on Belle Fourche Experiment Farm. 10¢.
- *398 D. Cereal experiments at Judith Basin substation, Moccasin, Mont. 10¢.
- *402 D. Cereal experiments at Akron Field Station, Colo. 10¢.
- *430 D. Cereal experiments on Cheyenne Experiment Farm, Archer, Wyo. 10¢.
- *698 D. Grain sorghum experiments in Panhandle of Texas. 15¢.
- *878 D. Varietal experiments with wheat on the northern Great Plains. 15¢.
- *1004 D. Use of water by spring wheat on Great Plains. 10¢.
- *1039 D. Experiments with cereals on the Belle Fourche Experiment Farm, Newell, S. Dak. 15¢.
- *1139 D. Storage of water in soil and its utilization by spring wheat. 5¢.
- *1173 D. Experiments in wheat production on the dry lands of western United States. 10¢.
- *1244 D. Forage crops in relation to the agriculture of semiarid portion of the northern Great Plains. 10¢.
- *1276 D. Varietal experiments with hard red winter wheats in dry areas of western United States. 10¢.
- *1287 D. Experiments with cereals at Akron (Colo.) Field Station in 15-year period 1908 to 1922, inclusive. 15¢.
- *1293 D. Tillage and rotation experiments at Dickinson, Hettinger, and Williston, N. Dak. 5¢.
- *1301 D. Report of Northern Great Plains Field Station for 10-year period 1913-1922, inclusive. 15¢.
- *1304 D. Crop rotation and cultural methods at Akron (Colo.) Field Station. 5¢.
- *1310 D. Experiments with fallow in north-central Montana. 5¢.
- *1315 D. Dry farming in southeastern Wyoming. 5¢.
- *1337 D. Work on Northern Great Plains Field Station in 1923. 5¢.
- *1427 D. Dry land gardening at northern Great Plains Field Station, Mandan, N. Dak. 5¢.
- *1446 D. Cost of producing winter wheat and incomes from wheat farming in Sherman County, Oreg. 10¢.

Department Circulars:

- *124 DC. Spur feterita. 5¢.
- *173 DC. Work of Scottsbluff Reclamation Project Experiment Farm in 1918 and 1919. 5¢.
- *204 DC. Work of the Huntley Reclamation Project Experiment Farm in 1918 and 1919. 5¢.
- *209 DC. Work of San Antonio Experiment Farm in 1919 and 1923. 10¢.
- *275 DC. Work of Huntley Reclamation Project Experiment Farm in 1921. 5¢.
- *289 DC. Work of Scottsbluff Experiment Farm in 1920 and 1921. 5¢.
- *330 DC. Work of Huntley Reclamation Project Experiment Farm in 1922. 5¢.
- *339 DC. Work of Belle Fourche Reclamation Experiment Farm from 1919 to 1922, inclusive. 10¢.
- *369 DC. Work of the Huntley Field Station in 1923 and 1924. 10¢.
- *417 DC. Work of Belle Fourche Field Station in 1923, 1924, and 1925. 10¢.

Miscellaneous Circulars:

- *81 MC. Relations between crop yields and precipitation in Great Plains area. 30¢.
Supplement No. 1: Crop rotations and tillage methods. 50¢.

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Technical Bulletins:

- *17 T. Work of United States Dry-Land Field Station, Ardmore, S. Dak., 1912-25. 15¢.
- *51 T. Broomcorn experiments at United States Dryland Field Station, Woodward, Okla., 1928. 10¢.
- *121 T. Methods of harvesting grain sorghums. 10¢.
- *131 T. Spacing and date of seeding experiments with grain sorghums. 10¢.
- *307 T. Crested wheatgrass as compared with brome grass, slender wheatgrass, and other hay and pasture crops for the northern Great Plains. 10¢.
- *329 T. Experiments in wheat production on the dry lands of Oregon, Washington, and Utah. 10¢.
- *330 T. Rotation and tillage experiments at the Lawton (Okla.) Field Station. 5¢.
- *353 T. Agricultural investigations at the Huntley (Mont.) Field Station, 1927-30. 10¢.
- *380 T. Sweetclover in Great Plains farming. 5¢.
- 454 T. Agricultural investigations at the Belle Fourche (S. Dak.) Field Station, 1926-32. 5¢.

FIBER CROPS

(See also Seeds)

COTTON**Farmers' Bulletins:**

- *48 F. The manuring of cotton. 5¢.
- *501 F. Cotton improvement under weevil conditions. 5¢.
- 1384 F. Community cotton production. 5¢.
- 1432 F. Culture of Pima and upland cotton in Arizona. 5¢.
- 1661 F. Farm study of the cotton plant. 5¢.
- 1686 F. Common errors in cotton production. 5¢.
- 1748 F. Ginning cotton. 5¢.

Circulars:

- 2 C. Acala cotton: A superior upland variety from southern Mexico. 20¢.
- *78 C. Condition of farmers in a white farmer area of the cotton piedmont, 1924-1926. 10¢.
- 192 C. Progress report on mechanical application of fertilizers to cotton in South Carolina, 1930. 10¢.
- *200 C. Irrigation and related cultural practices with cotton in the Salt River Valley of Arizona. 10¢.
- *256 C. Outlines of cotton culture in the San Joaquin Valley of California. 5¢.
- 258 C. Farmer opinions and other factors influencing cotton production and acreage adjustments in the South. 5¢.
- *262 C. Root development of cotton plants in the San Joaquin Valley of California. 5¢.
- *264 C. Mechanical application of fertilizers to cotton in South Carolina, 1931. 5¢.
- *267 C. Budding and grafting trials with cotton and related plants. 5¢.
- *286 C. Community production and distribution of cotton planting seed in a one-variety cotton community. 5¢.
- *293 C. A pioneer one-variety cotton community in Collin County, Tex. 5¢.
- *310 C. Uniformity of cotton fiber determined by field inspection. 5¢.
- 314 C. Community production of Acala cotton in New Mexico. 5¢.
- 318 C. A new method of self-pollinating cotton. 5¢.
- *360 C. A device for separating different lengths of fibers from seed cotton. 5¢.
- *393 C. Care and maintenance of cotton-gin saws and ribs. 5¢.

Department Bulletins:

- *374 D. The intrinsic values of grain, cottonseed, flour, and similar products, based on the dry-matter content. 5¢.
- *644 D. Lint percentage and lint index of cotton and methods of determination. 5¢.
- *801 D. Construction and fire protection of cotton warehouses. 50¢.
- *882 D. Manufacturing and laboratory tests to produce improved cotton airplane fabric. 10¢.

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Department Bulletins—Continued.

- *946 D. Comparative spinning tests of Meade and sea island cottons. 5¢.
- *948 D. Composition of cotton seed. 25¢.
- *985 D. A system of accounting for cotton ginneries. 10¢.
- *990 D. Preliminary manufacturing tests of the official cotton standards of the United States for color for upland tinged and stained cotton. 5¢.
- *1111 D. One-variety cotton communities. 10¢.
- *1134 D. Self-fertilization and cross-fertilization in Pima cotton. 10¢.
- *1148 D. Comparative spinning tests of superior varieties of cotton grown under weevil conditions in the Southeastern States, crop of 1921. 5¢.
- *1153 D. Boll-weevil cotton in Texas. 5¢.
- *1164 D. Segregation and correlation of characters in an upland-Egyptian cotton hybrid. 25¢.
- *1219 D. Delinting and recleaning cottonseed for planting purposes. 10¢.
- *1319 D. Ginning Pima cotton in Arizona. 10¢.
- *1320 D. Behavior of cotton planted at different dates in weevil-control experiments in Texas and South Carolina. 15¢.
- *1365 D. Development of flowers and bolls of Pima and Acala cotton in relation to branching. 5¢.
- *1438 D. Weather damage to cotton. 5¢.
- *1467 D. Community production of Acala cotton in the Coachella Valley of California. 15¢.
- *1473 D. Cotton-spacing experiments at Greenville, Tex. 15¢.
- *1488 D. Manufacturing tests of cotton of the white grades of the universal standards for American cotton. 10¢.

Department Circulars:

- *200 DC. Improvements in cotton production. 5¢.
- *205 DC. Cotton-seed mixing increased by modern gin equipment. 5¢.
- 278 DC. The commercial classification of American cotton. 10¢.
- *381 DC. Uniform-depth press-wheel cotton-planter attachment. 5¢.
- *390 DC. Study of off-type plants of Acala cotton. 10¢.
- *401 DC. Growth and development of cotton plants at Greenville, Texas. 5¢.
- *414 DC. Sea-island and Meade cotton in the Southeastern States. 5¢.

Miscellaneous Publications:

- *104 MP. The world cotton situation with outlook for 1931-32 and the long-time outlook for southern agriculture. 10¢.
- 126 MP. Fertilizers for cotton soils. 5¢.
- 149 MP. The vertical seed-cotton drier. 5¢.
- 175 MP. Cotton bags as consumer packages for farm products. 5¢.
- 203 MP. Cotton and cottonseed: A list of the publications of the United States Department of Agriculture on these subjects, including early reports of the United States Patent Office. 15¢.
- *239 MP. The vertical drier for seed cotton. 5¢.

Technical Bulletins:

- *13 T. Practices and costs of cotton-gin operation in north-central Texas, 1924-25. 15¢.
- *72 T. Irrigation of cotton. 10¢.
- *91 T. Leaf temperatures of cotton and their relation to transpiration, varietal differences, and yields. 10¢.
- 302 T. Cotton improvement through type selection, with special reference to the Acala variety. 30¢.
- *369 T. Pima Egyptian cotton in irrigated rotations at the Yuma Field Station, Bard, Calif. 5¢.
- *392 T. Effects of stress conditions on the cotton plant in Arizona. 5¢.
- 396 T. Neps and similar imperfections in cotton. 5¢.
- 406 T. A study of the raw cotton and the yarn and sheeting manufactured from three grades of American upland cotton. 10¢.
- 451 T. Cotton production in Egypt. 5¢.
- *503 T. Effects of gin-saw speed and seed-roll density on quality of cotton lint and operation of gin stands. 10¢.
- *508 T. Effect of artificially drying seed cotton before ginning on certain quality elements of the lint and seed and on the operation of the gin stand. 10¢.
- *509 T. Positions of seeds and motes in locks and lengths of cotton fibers from bolls borne at different positions on plants at Greenville, Texas. 5¢.

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Yearbook Separates:

- *877 Y. The cotton situation. 15¢.
- *1104 Y. Statistics of cotton, sugar, and tobacco. 1930. 5¢.
- *1149 Y. Statistics of cotton, sugar, and tobacco. (1931.) 10¢.
- 1358 Y. Multiplicity of varieties handicaps improvement in the American cotton crop. 5¢.
- 1359 Y. Live-at-home plans and soil building aid cotton growers. 5¢.
- 1361 Y. One-variety community plan shows numerous practical advantages. 5¢.
- *1407 Y. Statistics of cotton, sugar, and tobacco. (1934.) 5¢.
- *1479 Y. Statistics of cotton, sugar, and tobacco. (1935.) 10¢.

Diseases: Cotton**Farmers' Bulletins:**

- 1745 F. Cotton diseases and methods of control. 5¢.

Circulars:

- *67 C. A prolonged saprophytic stage of the cotton root-rot fungus. 5¢.
- *85 C. Studies of cotton root rot at Greenville, Texas. 10¢.
- *173 C. Cycles of growth in cotton root rot at Greenville, Texas. 5¢.
- *211 C. Verticillium wilt (Hadromycosis) of cotton in the San Joaquin Valley of California. 5¢.
- 337 C. Field practices affecting the control of cotton root knot in Arizona. 5¢.

Department Bulletins:

- *1417 D. Ozonium root rot. 15¢.
- *1484 D. Factors influencing the severity of the crazy-top disorder of cotton. 15¢.

Technical Bulletins:

- *277 T. The shedding of 4-lock and 5-lock bolls in upland cotton. 5¢.
- *426 T. The relation of fertilizers to the control of cotton root rot in Texas. 10¢.
- 436 T. Cotton root rot as affected by crop rotation and tillage at San Antonio, Tex. 10¢.
- 515 T. The effect of crazy top disorder on cotton plants and its control by irrigation management. 10¢.

Yearbook Separates:

- *1360 Y. Cotton diseases take two million bales of U. S. crop annually. 5¢.

Insects and other pests: Cotton**Farmers' Bulletins:**

- 831 F. The red spider on cotton and how to control it. 5¢.
- 1329 F. The boll-weevil problem. 5¢.
- *1595 F. The bollworm or corn ear worm as a cotton pest. 5¢.
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92 Standards for cotton classification in the United States and abroad.

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- 94 Official standards of the United States for American cotton linters
- 109 Items relating to the administration of the United States Cotton Futures and Cotton Standard Acts.
- 133 The official standards of the United States for the grading, sampling, and analyzing of cottonseed sold or offered for sale for crushing purposes.
- 146 Items relating to the administration of the United States Cotton Standards and Cotton Futures Acts.
- 150 Revision of standards for grades of American upland cotton.

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Bureau of Agricultural Economics Service and Regulatory Announcements:

Apply direct to the Bureau of Agricultural Economics, U. S. Department of Agriculture, Washington, D. C., for the following:

- 93 Rules and regulations of the Secretary of Agriculture governing the inspection and certification of fruits, vegetables, and other products: Amdt. 1—apples; admt. 2—potatoes.

APPLES

(See also Fruits: General)

Farmers' Bulletins:

- 1284 F. Apple-orchard renovation. 5¢.
- 1360 F. Apple growing east of the Mississippi River. 5¢.

Circulars:

- 95 C. Subsoil, an important factor in the growth of apple trees in the Ozarks. 10¢.
- 303 C. Soil profile and root penetration as indicators of apple production in the lake shore district of western New York. 5¢.

Department Bulletins:

- *500 D. The cost of producing apples in western Colorado. 10¢.
- *851 D. Cost of producing apples in five counties in western New York, 1910-1915. 10¢.
- *1455 D. Incomes from farming and cost of apple production in the Shenandoah Valley, Frederick County, Va. 10¢.

Technical Bulletins:

- *54T. Factors influencing the yield of apples in the Cumberland-Shenandoah region of Pennsylvania, Virginia, and West Virginia. 10¢.
- *338 T. Relation of leaf area and position to quality of fruit and to bud differentiation in apples. 5¢.
- *491 T. Soil moisture and irrigation investigations in eastern apple orchards. 5¢.

Diseases: Apples**Farmers' Bulletins:**

- 938 F. Apple bitter-rot and its control. 5¢.
- 1120 F. Control of apple powdery mildew. 5¢.
- 1160 F. Diseases of apples in storage. 5¢.
- 1380 F. Apple scald and its control. 5¢.
- 1478 F. Apple scab. 5¢.
- 1479 F. Apple blotch. 5¢.

Department Bulletins:

- *684 D. The sources of apple bitter-rot infections. 10¢.
- *1104 D. Internal browning of the Yellow Newtown apple. 10¢.
- *1253 D. Diseases of apples on the market. 5¢.

Department Circulars:

- *376 DC. A method for the control of crown gall in the apple industry. 5¢.

Posters:

- *11 colored posters, 7¼ by 12 inches, of apple diseases and injuries. 55¢ per set.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Insects and Other Pests: Apples

Farmers' Bulletins:

- 662 F. The apple-tree tent caterpillar. 5¢.
- 675 F. The roundheaded apple-tree borer. 5¢.
- *722 F. The leaf blister mite of pear and apple. 5¢.
- 1065 F. The flat-headed apple-tree borer. 5¢.

Technical Bulletins:

- *66 T. The apple maggot. 15¢.
- 263 T. The leaf hoppers attacking apple in the Ozarks. 10¢.

Marketing: Apples

Farmers' Bulletins:

- 1204. F. Northwestern apple packing houses. 5¢.
- 1457 F. Packing apples in boxes. 5¢.
- 1695 F. Preparing apples for market in barrels and baskets. 5¢.
- 1752 F. Spray-residue removal from apples and other fruits. 5¢.

Circulars:

- *56 C. Removal of spray residue from apples and pears in the Pacific Northwest. 5¢.
- 91 C. Market supplies and prices of apples. 15¢.

Department Bulletins:

- *587 D. The handling and storage of apples in the Pacific Northwest. 15¢.
- *1406 D. The ripening, storage, and handling of apples. 20¢.
- *1415 D. Marketing western boxed apples. 20¢.
- *1416 D. Marketing barreled apples. 20¢.

Department Circulars:

- *413 DC. Extent and causes of rejections of boxed apples from the State of Washington, seasons 1922 to 1925. 5¢.

Technical Bulletins:

- 234 T. Marketing apples grown in the Cumberland-Shenandoah region of Pennsylvania, Virginia, and West Virginia. 10¢.
- 245 T. Arsenical and other fruit injuries of apples resulting from washing operations. 10¢.
- 370 T. Bruising and freezing of apples in storage and transit. 15¢.
- 474 T. Marketing apples. 10¢.
- 523 T. Transportation of apples from the Shenandoah-Cumberland section to overseas markets. 5¢.

Bureau of Agricultural Economics Service and Regulatory Announcements:

- Apply direct to the Bureau of Agricultural Economics, U. S. Department of Agriculture, Washington, D. C., for the following:
- 93 Rules and regulations of the Secretary of Agriculture governing the inspection and certification of fruits, vegetables, and other products; Amdt. 1—apples; amdt. 2—potatoes.
 - 143 Grades, requirements, and regulations of the Secretary of Agriculture carrying out the provisions of the export apple and pear act.

Posters:

- *1 colored poster, 7¼ by 12 inches, of apples and pear injuries. 5¢ per set.
- *11 colored posters, 7¼ by 12 inches, of apple diseases and injuries. 55¢ per set.

BERRIES

(See also Fruits: General)

Farmers' Bulletins:

- 887 F. Raspberry culture. 5¢.
- 901 F. Everbearing strawberries. 5¢.
- *998 F. Culture of the Logan blackberry and related varieties. 5¢.
- *1026 F. Strawberry culture: South Atlantic and Gulf Coast regions. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Farmers' Bulletins—Continued.

- 1027 F. Strawberry culture: Western United States. 5¢.
 1028 F. Strawberry culture: Eastern United States. 5¢.
 1043 F. Strawberry varieties in the United States. 5¢.
 *1398 F. Currants and gooseberries: Their culture and relation to white-pine blister rust. 5¢.
 1399 F. Blackberry growing. 5¢.
 1400 F. Establishing cranberry fields. 5¢.
 1401 F. Managing cranberry fields. 5¢.
 *1402 F. Cranberry harvesting and handling. 5¢.
 1403 F. Dewberry growing. 5¢.

Circulars:

- 93 C. The Blakemore strawberry. 10¢.
 171 C. The Bellmar, Southland, and Redheart strawberries. 5¢.
 *220 C. The Brainerd blackberry. 5¢.
 *223 C. The Glenndale gooseberry. 5¢.
 257 C. The Dorsett, Fairfax, and Narcissa strawberries. 5¢.
 *259 C. The Potomac raspberry. 5¢.

Department Bulletins:

- *714 D. Spoilage of cranberries after harvest. 5¢.
 *960 D. The relation of water-raking to the keeping quality of cranberries. 5¢.
 974 D. Directions for blueberry culture, 1921. 30¢.

Department Circulars:

- *320 DC. The Van Fleet raspberry: A new hybrid variety. 5¢.

Technical Bulletins:

- *180 T. Origin and distribution of the commercial strawberry crop. 25¢.
 453 T. Responses of strawberry varieties and species to duration of the daily light period. 5¢.
 470 T. Investigations on runner and fruit production of everbearing strawberries. 5¢.

Diseases: Berries**Farmers' Bulletins:**

- 1458 F. Strawberry diseases. 5¢.
 1488 F. Diseases of raspberries and blackberries. 5¢.

Circulars:

- *147 C. The spread of cranberry false blossom in the United States. 5¢.
 297 C. Strawberry dwarf. 5¢.

Department Bulletins:

- *444 D. False blossom of the cultivated cranberry. 5¢.
 *1434 D. Cranberry disease investigations on the Pacific Coast. 5¢.

Department Circulars:

- *227 DC. Eastern blue-stem of the black raspberry. 5¢.
 *402 DC. Diseases of strawberries on the market. 5¢.

Technical Bulletins:

- *258 T. Fungous diseases of the cultivated cranberry. 25¢.

Insects and Other Pests: Berries**Farmers' Bulletins:**

- *860 F. Cranberry insect problems and suggestions for solving them. 5¢.
 *1286 F. The red-necked raspberry cane-borer. 5¢.

Circulars:

- *123 C. A comparative study of dusting by means of airplane and ground machine for the control of the blueberry maggot. 5¢.
 *196 C. The blueberry maggot and its control in eastern Maine. 5¢.

Department Bulletins:

- *554 D. The cranberry girdler. 10¢.
 *1032 D. The blackhead fireworm of cranberry on the Pacific Coast. 15¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Department Bulletins—Continued.

- *1093 D. The gipsy moth on cranberry bogs. 10¢.
- *1357 D. The strawberry rootworm, a new pest on greenhouse roses. 10¢.

Technical Bulletins:

- 275 T. The biology and control of the blueberry maggot in Washington County, Maine. 25¢.

Marketing: Berries

Farmers' Bulletins:

- 1560 F. Preparing strawberries for market. 5¢.

Circulars:

- *219 C. Market diseases of strawberries from the Southeastern States, 1926-1930. 5¢.

Department Bulletins:

- *274 D. Factors governing the successful shipment of red raspberries from the Puyallup Valley. 10¢.
- *688 D. Marketing berries and cherries by parcel post. 5¢.

CITRUS FRUITS

(See also Fruits: General)

Farmers' Bulletins:

- *794 F. Citrus-fruit improvement: How to secure and use tree-performance records. 5¢.
- *1333 F. Pruning citrus trees in the Southwest. 5¢.
- *1343 F. Culture of citrus fruits in the Gulf States. 5¢.
- *1447 F. Citrus fruit growing in the Southwest. 5¢.

Circulars:

- *181 C. New citrus hybrids. 20¢.

Department Bulletins:

- *1435 D. Economic aspects of citrus-fruit growing in Polk County, Fla. 10¢.
- *1483 D. Bud selection in the Valencia orange: Progeny tests of limb variations. 15¢.

Department Circulars:

- *206 DC. A new feature of bud variation in citrus. 5¢.
- *299 DC. Quarantine procedure to safeguard the introduction of citrus plants: A system of aseptic plant propagation. 5¢.
- *310 DC. The solar propagating frame for rooting citrus and other subtropical plants. 5¢.
- *409 DC. Effect of spraying with fungicides on the keeping quality of Florida citrus fruits. 5¢.

Technical Bulletins:

- *123 T. Bud selection in the Washington Navel orange: Progeny tests of limb variations. 20¢.
- *163 T. Inheritance of composition of Washington Navel oranges of various strains propagated as bud variants. 5¢.
- *176 T. The citrus rust mite and its control. 15¢.
- 241 T. Analyses and composition of California lemon and orange oils. 5¢.

Diseases: Citrus Fruits

Circulars:

- *396 C. A method of harvesting grapefruit to retard stem-end rot. 5¢.

Department Bulletins:

- *1118 D. Citrus scab: Its cause and control. 25¢.
- *1474 D. Citrus melanose and its control. 20¢.

Department Circulars:

- *215 DC. Commercial control of citrus scab. 5¢.
- *259 DC. Commercial control of citrus melanose. 5¢.
- *293 DC. Commercial control of citrus stem-end rot. 5¢.

Technical Bulletins:

- *488 T. Reducing decay in citrus fruits with borax. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Insects and Other Pests: Citrus Fruits

Farmers' Bulletins:

- *933 F. Spraying for the control of insects and mites attacking citrus trees in Florida. 5¢.
- *1011 F. The woolly white fly in Florida citrus groves. 5¢.
- 1309 F. Control of the common mealybug on citrus in California. 5¢.
- 1321 F. Fumigation of citrus trees for control of insect pests. 5¢.

Circulars:

- *266 C. The citrus insects of tropical Asia. 5¢.
- *365 C. The camphor scale. 5¢.

Department Bulletins:

- *1040 D. Control of the citrophilus mealybug. 5¢.
- *1117 D. Natural control of the citrus mealybug in Florida. 5¢.

Technical Bulletins:

- *15 T. The citrus insects of Japan. 5¢.
- *252 T. Two citrus leaf miners of the Far East. 5¢.
- 320 T. The citrus blackfly in Asia, and the importation of its natural enemies into tropical America. 10¢.

Marketing: Citrus Fruits

Department Bulletins:

- *1159D. Coloring Satsuma oranges in Alabama. 5¢.
- 1261 D. Operating methods and expense of cooperative citrus-fruit marketing agencies. 5¢.
- *1290 D. Transportation of citrus fruit from Porto Rico. 5¢.
- *1367 D. Coloring citrus fruit in Florida. 5¢.

Technical Bulletins:

- 505 T. Refrigeration of oranges in transit from California. 15¢.

Bureau of Agricultural Economics Service and Regulatory Announcements:

Apply direct to the Bureau of Agricultural Economics, U. S. Department of Agriculture, Washington, D. C., for the following:

- 145 United States standards for grades of canned grapefruit (approved Feb. 21, 1934).

GRAPES

(See also Fruits: General)

Farmers' Bulletins:

- 471 F. Grape propagation, pruning, and training. 5¢.
- 1689 F. Grape districts and varieties in the United States. 5¢.

Department Bulletins:

- *856 D. Currant-grape growing: A promising new industry. 10¢.

Insects and Other Pests: Grapes

Farmers' Bulletins:

- *721 F. The rose-chaffer: A destructive garden and vineyard pest. 5¢.
- *1128 F. Control of aphids injurious to orchard fruits, currant, gooseberry, and grape. 10¢.

Department Bulletins:

- *837 D. Control of the grape-berry moth in northern Ohio. 10¢.
- *903 D. The grape phylloxera in California. 30¢.
- *911D. Life history of the grape-berry moth in northern Ohio. 10¢.

Technical Bulletins:

- *20 T. A study of phylloxera infestation in California as related to types of soils. 25¢.
- *146 T. Testing phylloxera-resistant grape stocks in the vinifera regions of the United States. 20¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Marketing: Grapes**Farmers' Bulletins:**

- 1558 F. Preparation of eastern grapes for market. 5¢.

Circulars:

- 83 C. The handling of California table grapes. 5¢.

Department Bulletins:

- *861 D. Marketing eastern grapes. 10¢.

MELONS**Farmers' Bulletins:**

- 1394 F. Watermelons. 5¢.
1468 F. Muskmelons. 5¢.

Department Bulletins:

- *1250 D. Relation between the composition of California cantaloupes and their commercial maturity. 5¢.

Diseases: Melons**Department Circulars:**

- *217 DC. Anthracnose of muskmelons. 5¢.

Insects and Other Pests: Melons**Farmers' Bulletins:**

- 1499 F. The melon aphid and its control. 5¢.

Marketing: Melons**Farmers' Bulletins:**

- *1145 F. The handling and transportation of cantaloupes. 5¢.

Circulars:

- *74 C. Chemical injury to watermelons in transit. 5¢.

Department Bulletins:

- *401 D. Marketing and distribution of western muskmelons in 1915. 15¢.

Technical Bulletins:

- 398 T. Origin, distribution, and market price of the commercial watermelon crop. 10¢.
425 T. Marketing cantaloupes and other muskmelons. 5¢.

PEACHES

(See also Fruits: General)

Farmers' Bulletins:

- 917 F. Growing peaches: Sites and cultural methods. 5¢.
*918 F. Peach varieties and their classification. 5¢.

Circulars:

- 212 C. Bud variation in peaches. 10¢.
*375 C. Varietal suitability of peaches for preserve making and factors affecting the quality of the product. 5¢.

Department Bulletins:

- *298 D. Peach supply and distribution in 1914. 5¢.

Technical Bulletins:

- *84 T. Preservation of peaches for use in the manufacture of ice cream. 5¢.
*196 T. The canning quality of certain commercially important eastern peaches. 10¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Diseases: Peaches

Farmers' Bulletins:

- 1527 F. Peach brown rot and scab. 5¢.

Department Bulletins:

- *1482 D. Experiments on the control of the plum curculio, brown rot, and scab, attacking the peach in Georgia. 5¢.

Technical Bulletins:

- 273 T. The bacterial spot disease of the peach and other stone fruits. 20¢.

Insects and Other Pests: Peaches

Farmers' Bulletins:

- 1246 F. The peach borer: How to prevent or lessen its ravages; the paradichlorobenzene treatment. 5¢.
1557 F. Insects attacking the peach in the South and how to control them. 5¢.

Circulars:

- *235 C. Injury to peach fruits by gipsy-moth larvae. 5¢.

Department Bulletins:

- *351 D. The terrapin scale: An important insect enemy of peach orchards. 15¢.
*796D. Use of toxic gases as a possible means of control of the peach-tree borer. 5¢.

Department Circulars:

- *395 DC. The oriental peach moth. 10¢.

Technical Bulletins:

- *58 T. Paradichlorobenzene experiments in the South for peach-borer control. 10¢.
*152 T. Life history of the oriental peach moth in Georgia. 5¢.
*183 T. Life history of the oriental peach moth at Riverton, N. J., in relation to temperature. 10¢.
*188 T. Life history and habits of the plum curculio in the Georgia peach belt. 25¢.
253 T. Petroleum oils and oil emulsions as insecticides, and their use against the San Jose scale on peach trees in the South. 10¢.

Marketing: Peaches

Farmers' Bulletins:

- 1702 F. Preparing peaches for market. 5¢.

Technical Bulletins:

- *115 T. Factors affecting the price of peaches in the New York City market. 15¢.

PEARS

(See also Fruits: General)

Farmers' Bulletins:

- 1739 F. Pear growing in the Pacific Coast States. 5¢.

Technical Bulletins:

- 290 T. Investigations on harvesting and handling fall and winter pears. 15¢.
432 T. Studies of the irrigation of pear orchards on heavy soil near Medford, Oregon. 5¢.
450 T. Relation of maturity and handling of Bartlett pears in the Pacific Northwest to quality of the canned product. 5¢.

Diseases: Pears

Circulars:

- *177 C. Control of Botrytis rot of pears with chemically treated wrappers. 5¢.

Posters:

- *1 colored poster, 7¼ by 12 inches, of apple and pear injuries. 5¢ per set.
*4 colored posters, 7¼ by 12 inches, of pear diseases and injuries. 20¢ per set.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Insects and Other Pests: Pears

Farmers' Bulletins:

- *722 F. The leaf blister mite of pear and apple. 5¢.

Department Bulletins:

- *173 D. The life history and habits of the pear thrips in California. 15¢.

Marketing: Pears

Circulars:

- *59 C. Removal of spray residue from apples and pears in the Pacific Northwest. 5¢.

Technical Bulletins:

- *140 T. Investigations on the handling of Bartlett pears from Pacific coast districts. 10¢.
290 T. Investigations on harvesting and handling fall and winter pears. 15¢.
434 T. Refrigerated transportation of Bartlett pears from the Pacific Northwest. 5¢.

Bureau of Agricultural Economics Service and Regulatory Announcements:

- Apply direct to the Bureau of Agricultural Economics, U. S. Department of Agriculture, Washington, D. C., for the following:
143 Grades, requirements, and regulations of the Secretary of Agriculture carrying out the provisions of the Export Apple and Pear Act.

OTHER FRUITS

(See also Fruits: General)

Farmers' Bulletins:

- 685 F. The native persimmon. 5¢.
776 F. Growing cherries east of the Rocky Mountains. 5¢.
1031 F. Fig growing in the South Atlantic and Gulf States. 5¢.
*1249 F. Olive growing in the southwestern United States. 5¢.
1372 F. Plum and prune growing in the Pacific States. 10¢.

Circulars:

- *49 C. Culture and outdoor winter storage of persimmons in the vicinity of Peking, China. 5¢.
*98 C. The Wonderful variety of pomegranate: Composition, commercial maturity, and by-products. 5¢.
*300 C. The Dairee date: A promising Mesopotamian variety for testing in the Southwest. 5¢.
*330 C. Immunity of Viking, a red Norwegian red currant, to *Cronartium ribicola* and *C. occidentale* under greenhouse conditions. 15¢.

Department Bulletins:

- *271 D. Dates of Egypt and the Sudan. 20¢.
*1125 D. The Saidy date of Egypt: A variety of the first rank adapted to commercial culture in the United States. 15¢.
*1215 D. The Chinese jujube. 5¢.
*1457 D. Date culture in Egypt and the Sudan. 25¢.
*1477 D. Varietal characteristics of plums in the Pacific States in relation to pruning. 45¢.

Department Circulars:

- *387 DC. Pollination of the avocado. 5¢.
*416 DC. Demand, marketing, and production of Oregon and Washington prunes. 10¢.

Miscellaneous Publications:

- 27 MP. Black currant spreads white-pine blister rust. 5¢.

Yearbook Separates:

- *592 Y. Some results obtained in studying ripening bananas with the respiration calorimeter. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Diseases: Other Fruits**Farmers' Bulletins:**

- 1053 F. Control of cherry leaf-spot. 5¢.
 1410 F. Control of brown-rot of prunes and cherries in the Pacific Northwest. 5¢.

Department Bulletins:

- *368 D. Brown-rot of prunes and cherries in the Pacific Northwest. 5¢.
 *1252 D. Prune and cherry brown-rot investigations in the Pacific Northwest. 10¢.

Insects and Other Pests: Other Fruits**Farmers' Bulletins:**

- *1128 F. Control of aphids injurious to orchard fruits, currant, gooseberry, and grape. 10¢.
 1257 F. Insects injurious to the mango in Florida and how to combat them. 5¢.
 1261 F. The avocado: Its insect enemies and how to combat them. 5¢.

Circulars:

- *157 C. Fig insects in California. 20¢.

Department Bulletins:

- *1081 D. Biology of the papaya fruit fly, *Toxotrypana curvicauda*, in Florida. 5¢.

Technical Bulletins:

- *188 T. Life history and habits of the plum curculio in the Georgia peach belt. 25¢.
 *404 T. The external anatomy of the red date scale, *Phoenicococcus marlatti* Cockerell, and its allies. 15¢.
 *421 T. The external anatomy of the Parlatoria date scale, *Parlatoria blanchardi* Targioni Tozzetti, with studies of the head skeleton and associated parts. 10¢.

Marketing: Other Fruits**Department Bulletins:**

- *688 D. Marketing berries and cherries by parcel post. 5¢.

Department Circulars:

- *416 DC. Demand, marketing, and production of Oregon and Washington prunes. 10¢.

Technical Bulletins:

- *193 T. Experiments on processing and storing of Deglet Noor dates in California. 15¢.

GRAINS

(See also Crop Culture: General; Seeds; and Weeds)

GRAINS (GENERAL)**Farmers' Bulletins:**

- 738 F. Cereal crops in the Panhandle of Texas. 5¢.
 *786 F. Fall-sown grains in Maryland and Virginia. 5¢.
 *800 F. Grains for the dry lands of central Oregon. 5¢.
 825 F. Pit silos. 5¢.
 *878 F. Grains for western North and South Dakota. 5¢.
 855 F. Homemade silos. 5¢.
 *883 F. Grains for the Utah dry lands. 5¢.
 1103 F. Growing irrigated grain in southern Idaho. 5¢.
 *1542 F. Cleaning grain on farms and in country elevators. 5¢.
 1556 F. Irrigation of small grains. 5¢.
 1725 F. Methods and costs of filling silos in the North Central States. 5¢.

Circulars:

- *9 C. The Bates laboratory aspirator. 5¢.
 *119 C. Relation of dust fungicides to flow of small grains through drills and to drill injury. 5¢.
 *127 C. Grain drying at a country elevator. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Department Bulletins:

- *30 D. Cereal investigations at the Nephi substation. 10¢.
- *33 D. Cereal experiments at Dickinson, N. Dak. 10¢.
- *270 D. Cereal experiments at the Williston substation. 10¢.
- *297 D. Cereal investigations on the Belle Fourche Experiment Farm. 10¢.
- *336 D. Cereal experiments in Maryland and Virginia. 10¢.
- *374 D. The intrinsic values of grain, cottonseed, flour, and similar products, based on the dry-matter content. 5¢.
- *379 D. Dust explosions and fires in grain separators in the Pacific Northwest. 10¢.
- *398 D. Cereal experiments at the Judith Basin substation, Moccasin, Mont. 10¢.
- *402 D. Cereal experiments at the Akron Field Station, Akron, Colo. 10¢.
- *430 D. Cereal experiments on the Cheyenne Experiment Farm, Archer, Wyo. 10¢.
- 574 D. The conversion of the weights of mechanical separations of corn, wheat, and other grains into percentages. 5¢.
- *681 D. Grain-dust explosions: Investigation in the experimental attrition mill at the Pennsylvania State College. 10¢.
- *757 D. Farm practices in grain farming in North Dakota. 10¢.
- *811 D. A system of bookkeeping for grain elevators. 20¢.
- *857 D. A modified Boerner Sampler. 5¢.
- *1039 D. Experiments with cereals on the Belle Fourche Experiment Farm. 15¢.
- *1172 D. Cereal experiments at Chico, Calif. 10¢.
- *1187 D. Experimental milling and baking, including chemical determinations. 15¢.
- *1203 D. Experimental production of straw gas. 5¢.
- *1287 D. Experiments with cereals at the Akron (Colo.) Field Station in the 15-year period, 1908 to 1922, inclusive. 15¢.
- *1309 D. Experiments with small grains on the Arlington Experiment Farm. 10¢.
- *1373 D. Dust control in grain elevators. 10¢.
- 1375 D. The Brown-Duvel moisture tester and how to operate it. 10¢.
- *1471 D. Oil content of flaxseed, with comparisons of tests for determining oil content. 10¢.

Department Circulars:

- *98 DC. The installation of dust-collecting fans on thrashing machines for the prevention of explosions and fires and for grain cleaning. 5¢.
- *171 DC. Unprotected electric lights: A fire and explosion hazard in dusty industries. 5¢.

Miscellaneous Circulars:

- *56 MC. Cleaning grain with the Bates aspirator. 10¢.

Miscellaneous Publications:

- 219 MP. Treat seed grain. 5¢.

Technical Bulletins:

- *70 T. The combined harvester-thresher in the Great Plains. 15¢.
- *74 T. The value of inert gas as a preventive of dust explosions in grinding equipment. 5¢.
- 244 T. Harvesting small grain, soybeans, and clover in the Corn Belt with combines and binders. 15¢.

Yearbook Separates:

- *898 Y. Bread grains. 10¢.
- *932 Y. Statistics of grains, 1927. 15¢.
- *1103 Y. Statistics of grains, 1930. 10¢.
- *1148 Y. Statistics of grains, 1931. 15¢.
- *1406 Y. Statistics of grains, 1934. 10¢.
- *1478 Y. Statistics of grains, 1935. 10¢.

Diseases: Grains (General)**Circulars:**

- 341 C. The rusts of cereal crops. 5¢.

Department Bulletins:

- 1162 D. The role of the genus *Rhymnus* in the dissemination of crown rust. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Technical Bulletins:

- *266 T. Morphologic and physiologic studies on stem-rust resistance in cereals. 15¢.
- *314 T. Factors affecting the development of the aecial stage of *Puccinia graminis*. 10¢.
- *423 T. Cercospora foot rot of winter cereals. 10¢.

Insects and Other Pests: Grains (General)**Farmers' Bulletins:**

- *725 F. Wireworms destructive to cereal and forage crops. 5¢.
- 731 F. The true army worm and its control. 5¢.
- 739 F. Cutworms and their control in corn and other cereal crops. 5¢.
- *752 F. The fall army worm, or "grass worm", and its control. 5¢.
- 835 F. How to detect outbreaks of insects and save the grain crops. 5¢.
- 1003 F. How to control billbugs destructive to cereal and forage crops. 5¢.
- 1156 F. Angoumois grain moth. 5¢.
- 1217 F. The green-bug or spring grain-aphis: How to prevent its periodical outbreaks. 5¢.
- 1258 F. Webworms injurious to cereal and forage crops and their control. 5¢.
- 1260 F. Stored-grain pests. 5¢.
- *1483 F. Control of insect pests in stored grains. 10¢.
- 1627 F. The hessian fly and how losses from it can be avoided. 5¢.
- 1657 F. The Great Basin wireworm in the Pacific Northwest. 5¢.
- 1691 F. How to control grasshoppers in cereal and forage crops. 5¢.

Circulars:

- *241 C. Leaf hoppers injurious to cereal and forage crops. 5¢.
- 390 C. Flour-mill insects and their control. 5¢.

Department Bulletins:

- *779 D. The grain bug. 5¢.
- *834 D. Black grain-stem sawfly of Europe in the United States. 5¢.
- *1068 D. Rate of multiplication of the hessian fly. 5¢.
- *1016 D. Bionomics of the chinch bug. 5¢.
- *1085 D. Broad-nosed grain weevil. 5¢.
- *1313 D. Fumigation against grain weevils with various volatile organic compounds. 10¢.
- *1393 D. The granary weevil. 10¢.
- *1428 D. The cadelle. 10¢.

Miscellaneous Publications:

- *174 MP. The serphoid and chalcidoid parasites of the hessian fly. 10¢.

Technical Bulletins:

- *34 T. The fall army worm. 25¢.
- *41 T. The sugar-cane moth borer in the United States. 25¢.
- *81 T. The hessian fly in California. 5¢.
- *95 T. The meal worms. 10¢.
- *138 T. Studies on the fall army worm in the Gulf Coast district of Texas. 10¢.
- *157 T. The western grass-stem sawfly: A pest of small grains. 5¢.
- *162 T. Tests of various aliphatic compounds as fumigants. 10¢.
- *351 T. Life history of the Angoumois grain moth in Maryland. 5¢.
- *361 T. The hessian fly in the Pacific Northwest. 5¢.
- *498 T. The flour beetles of the genus *Tribolium*. 10¢.
- 518 T. A second revision of the chalcid flies of the genus *Har-
molita* (*Isosoma*) of America north of Mexico, with descriptions of 20 new species. 5¢.

Marketing: Grains (General)**Farmers' Bulletins:**

- *1290 F. The bulk handling of grain. 5¢.
- 1636 F. Farm bulk storage for small grains. 5¢.

Circulars:

- 151 C. Hedging in grain futures. 25¢.
- 161 C. Bulk and sack handling of grain in the Pacific Coast States. 10¢.
- 201 C. Future trading and the cash grain markets. 15¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only

Department Bulletins:

- *558 D. Marketing grain at country points. 5¢.
- *937 D. Cooperative grain marketing. A comparative study of methods in the United States and Canada. 5¢.
- *1065 D. The test weight of grain: A simple method of determining the accuracy of the testing apparatus. 5¢.

Miscellaneous Circulars:

- *41 MC. Estimating the quantity of grain in bins with chart reducing the necessary computations. 5¢.

Miscellaneous Publications:

- 173 MP. Proposed revised Federal grain standards. 10¢.

Statistical Bulletins:

- *6 S. Grain futures, daily data: Volume of trading on the Chicago Board of Trade, January 1, 1921, to May 31, 1924. 5¢.
- *11 S. Hay and feed statistics: Year ended December 31, 1924, with comparable data for earlier years. 15¢.

Technical Bulletins:

- *63 T. Cooperative marketing of grain in western Canada. 20¢.
- 287 T. Farm-management problems in shifting from sack to bulk handling of grain in the Pacific Northwest. 15¢.

Yearbook Separates:

- *766 Y. The farmer and Federal grain supervision. 5¢.

Bureau of Agricultural Economics Service and Regulatory Announcements:

Apply direct to the Bureau of Agricultural Economics, U. S. Department of Agriculture, Washington, D. C., for the following:

- 144 Official grain standards of the United States for wheat, barley, feed oats, oats, etc.
- 147 Air-oven and water-oven methods specified in the United States official standards for determining the moisture content of grain.
- 148 Regulations under the Grain Standards Act.

BARLEY

(See also Grains: General)

Farmers' Bulletins:

- *1464 F. Barley: Culture, uses, and varieties. 5¢.
- 1732 F. Growing barley for malt and feed. 5¢.

Department Bulletins:

- *137 D. Some distinctions in our cultivated barleys with reference to their use in plant breeding. 5¢.
- *869 D. The inheritance of the length of internode in the rachis of the barley spike. 5¢.
- *1334 D. Tests of barley varieties in America. 30¢.

Statistical Bulletins:

- *29 S. Statistics of oats, barley, and grain sorghums: Year ended December 31, 1928, with comparable data for earlier years. 25¢.

Technical Bulletins:

- *96 T. Yields of barley in the United States and Canada, 1922-1926. 15¢.
- *133 T. Flax cropping in mixture with wheat, oats, and barley. 10¢.
- *207 T. Seed treatment for controlling covered smut of barley. 5¢.
- *341 T. Effects of certain environmental factors on stripe disease of barley and the control of the disease by seed treatment. 5¢.
- 446 T. Yields of barley in the United States and Canada, 1927-1931. 10¢.

Yearbook Separates:

- *891 Y. Oats, barley, rye, rice, grain sorghums, seed flax, and buckwheat. 15¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Diseases: Barley

Miscellaneous Publications:

- 131 MP. A dangerous neighbor for wheat, oats, barley, and rye. (Barberry.) 5¢.
199 MP. Barley diseases controlled by seed treatment. 5¢.

Technical Bulletins:

- *207 T. Seed treatment for controlling covered smut of barley. 5¢.
*293 T. Factors affecting the development of loose smut in barley and its control by dust fungicides. 5¢.
*295 T. Susceptibility of barley to leaf rust (*Puccinia anomala*) and to powdery mildew (*Erysiphe graminis hordei*). 5¢.
*341 T. Effects of certain environmental factors on stripe disease of barley and the control of the disease by seed treatment. 5¢.
*513 T. Further experiments on the control of barley smuts. 5¢.

Marketing: Barley

Bureau of Agricultural Economics Service and Regulatory Announcements:

- Apply direct to the Bureau of Agricultural Economics, U. S. Department of Agriculture, Washington, D. C., for the following:
144 Official grain standards of the United States for wheat, barley, feed oats, oats, etc.

CORN

(See also Grains: General)

Farmers' Bulletins:

- *546 F. How to manage a corn crop in Kentucky and West Virginia. 5¢.
*773 F. Corn growing under droughty conditions. 5¢.
948 F. The rag-doll seed tester: Its use in determining what ears of corn are fit for seed. 5¢.
1175 F. Better seed corn. 5¢.
1589 F. The husker-shredder on eastern Corn Belt farms. 5¢.
1634 F. Growing sweet corn for the cannery. 5¢.
1701 F. Corncribs for the Corn Belt. 5¢.
1714 F. Corn culture. 5¢.
1715 F. Methods and costs of husking corn in the field. 5¢.
1744 F. The what and how of hybrid corn. 5¢.

Circulars:

- 34 C. Chemical-dust seed treatments for dent corn. 5¢.

Department Bulletins:

- *215 D. Composition of corn (maize) meal manufactured by different processes and the influence of composition on the keeping qualities. 5¢.
*307 D. Tests of corn varieties on the Great Plains. 5¢.
574 D. The conversion of the weights of mechanical separations of corn, wheat, and other grains into percentages. 5¢.
*754 D. Inheritance of waxy endosperm in maize. 15¢.
*925 D. A brachytic variation in maize. 20¢.
*971 D. Inheritance of ramose inflorescence in maize. 20¢.
*1011 D. Effects of mutilating the seeds on the growth and productiveness of corn. 5¢.
*1062 D. Relation of the character of the endosperm to the susceptibility of dent corn to root rotting. 5¢.
*1209 D. Effects of selection on the yield of a cross between varieties of corn. 5¢.
*1321 D. A statistical study of the relation between seed-ear characters and productiveness in corn. 5¢.
*1341 D. Effects of continuous selection for ear type in corn. 5¢.
*1354 D. The productiveness of successive generations of self-fertilized lines of corn and of crosses between them. 10¢.
*1396 D. A comparison of maize-breeding methods. 5¢.
*1468 D. Variability in the linkage of two seed characters of maize. 10¢.

Department Circulars:

- *156 DC. How teachers may use Farmers' Bulletin 1175, Better Seed Corn. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Miscellaneous Publications:

- *56 M.P. Low-cutting devices for harvesting corn. 15¢.
- 142 M.P. Construction of sled-type cornstalk shavers. 5¢.
- 212 M.P. A low-cutting sled corn cutter. 5¢.

Statistical Bulletins:

- *28 S. Corn statistics; Year ended December 31, 1928, with comparable data for earlier years. 25¢.

Technical Bulletins:

- *97 T. Relation of kernel density to table and canning quality in different varieties of maize. 5¢.
- *267 T. Experiments on hybrid vigor and convergent improvement in corn. 10¢.
- *292 T. The inheritance of colored scutellums in maize. 10¢.

Yearbook Separates:

- *772 Y. The thrashing ring in the Corn Belt. 5¢.

Diseases: Corn
Farmers' Bulletins:

- *1124 F. The brown-spot of corn with suggestions for its control. 5¢.

Technical Bulletins:

- *10 T. The productiveness of corn as influenced by the mosaic disease. 5¢.
- *120 T. Relation of husk covering to smut of corn ears. 5¢.
- *362 T. Bacterial wilt of corn. 5¢.

Posters:

- *2 colored posters, 7¼ by 12 inches, of diseases of corn. 10¢ per set.

Insects and Other Pests: Corn
Farmers' Bulletins:

- 875 F. The rough-headed corn stalk-beetle in the Southern States and its control. 5¢.
- 891 F. The corn root-aphis and methods of controlling it. 5¢.
- *915 F. How to reduce weevil waste in southern corn. 5¢.
- *950 F. The southern corn rootworm and farm practices to control it. 5¢.
- 1025 F. The larger corn stalk-borer. 5¢.
- 1029 F. Conserving corn from weevils in the Gulf Coast States. 5¢.
- *1206 F. The corn earworm as an enemy of vetch. 5¢.
- 1548 F. The European corn borer: Its present status and methods of control. 5¢.
- 1562 F. Farm practices under corn-borer conditions. 5¢.
- 1651 F. The corn earworm as an enemy of field corn in the Eastern States. 5¢.
- 1662 F. Husker-shredders in corn-borer control. 5¢.
- 1681 F. Adjusting Corn Belt farming to meet corn-borer conditions. 5¢.

Circulars:

- *14 C. Status of imported parasites of the European corn borer. 5¢.
- *71 C. Heat and time of exposure necessary to kill larvae of the European corn borer in ear corn. 5¢.
- *132 C. Fighting the corn borer with machinery in the two-generation area. 15¢.
- 194 C. Manure piles and feed lots as sources of European corn borer reinfestation. 5¢.
- 275 C. The infestation of corn ears by the European corn borer, and cribbed corn as an auxiliary source of infestation. 5¢.
- *281 C. The survival of European corn-borer larvae in barns and other storage places. 5¢.
- *289 C. Observations on the European corn borer and its major parasites in the Orient. 5¢.
- 321 C. Use of farm machinery for corn-borer control in the one-generation area. 5¢.

Department Bulletins:

- *436 D. The desert corn flea-beetle. 5¢.
- *539 D. The lesser corn stalk-borer. 5¢.
- *1267 D. The rough-headed corn stalk-beetle. 10¢.
- *1476 D. A progress report on the investigations of the European corn borer. 35¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Miscellaneous Circulars:

- *46 MC. A bibliography of the European corn borer (*Pyrausta nubilalis* Hbn.). 10¢.
 *102 MC. Pertinent information regarding the 1927 spring clean-up of areas quarantined on account of the European corn borer.

Technical Bulletins:

- *59 T. The European corn borer and its controlling factors in Europe. 10¢.
 *77 T. The host plants of the European corn borer in New England. 30¢.
 *98 T. Imported parasites of the European corn borer in America. 10¢.
 *135 T. The corn borer in central Europe: A review of investigations from 1924 to 1927. 20¢.
 230 T. *Macrocentrus gifuensis* Ashmead, a polyembryonic braconid parasite in the European corn borer. 15¢.
 233 T. *Apanteles thompsoni* Lyle, a braconid parasite of the European corn borer. 10¢.
 294 T. The biology and morphology of the braconid *Chelonus annulipes* Wesm., a parasite of the European corn borer. 10¢.
 *306 T. Biology and control of the corn leaf aphid with special reference to the Southwestern States. 5¢.
 *331 T. *Phaeogenes nigridens* Wesmael, an important ichneumonid parasite of the pupa of the European corn borer. 5¢.
 *388 T. The southwestern corn borer. 10¢.
 *395 T. Subfreezing temperatures lethal to the European corn borer infesting green ears of sweet corn. 5¢.
 *441 T. The biology of *Cremastus flavoorbitalis* (Cameron), an ichneumonid parasite of the European corn borer. 5¢.
 *455 T. The European corn borer and its controlling factors in the Orient. 5¢.
 *460 T. Studies of *Exeristes roborator* (Fab.), a parasite of the European corn borer in the Lake Erie area. 5¢.
 *499 T. The cannibalistic habits of the corn ear worm. 5¢.
 *504 T. *Orius insidiosus* (Say), an important natural enemy of the corn ear worm. 5¢.

Posters:

Help fight the European corn borer. J.-63843.

Marketing: Corn**Circulars:**

- 397 C. Analysis of open commitments in wheat and corn futures on the Chicago Board of Trade, September 29, 1934. 5¢.

Department Bulletins:

- *48 D. The shrinkage of shelled corn while in cars in transit. 5¢.
 *168 D. Grades for commercial corn. 15¢.
 *764 D. Factors influencing the carrying qualities of American export corn. 20¢.
 *1083 D. Farm and terminal market prices. Wheat, corn, and oats, crop movement, year 1920-21. 10¢.

Statistical Bulletins:

- 34 S. Corn futures: Volume of trading, open commitments, and prices from January 3, 1921, to December 31, 1929. 35¢.
 43 S. Corn futures: Volume of trading, open commitments, and prices from January 2, 1930, to December 31, 1932. 10¢.

Technical Bulletins:

- 199 T. Trading in corn futures. 20¢.

OATS

(See also Grains: General)

Farmers' Bulletins:

- 1581 F. Oats in the North-Central States. 5¢.
 1583 F. Spring-sown red oats. 5¢.
 1611 F. Oats in the western half of the United States. 5¢.
 1640 F. Fall-sown oat production. 5¢.
 1659 F. Oats in the Northeastern States. 5¢.

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Department Bulletins:

- *99 D. Tests of selections from hybrids and commercial varieties of oats. 5¢.
- *755 D. Geographical phases of farm prices: Oats. 10¢.
- *1058 D. Sterility of oats. 5¢.
- *1343 D. Improved oat varieties for the Corn Belt. 10¢.
- *1351 D. What makes the price of oats. 10¢.
- *1481 D. Experiments with fall-sown oats in the South. 10¢.

Department Circulars:

- *324 DC. Markton, an oat variety immune from covered smut. 5¢.
- *353 DC. Improved oat varieties for New York and adjacent States. 5¢.

Statistical Bulletins:

- *29 S. Statistics of oats, barley, and grain sorghums: Year ended December 31, 1928, with comparable data for earlier years. 25¢.

Technical Bulletins:

- *133 T. Flax cropping in mixture with wheat, oats, and barley. 10¢.

Yearbook Separates:

- *891 Y. Oats, barley, rye, rice, grain sorghums, seed flax, and buckwheat. 15¢.

Diseases: Oats**Circulars:**

- *133 C. Methods of eradicating buckthorn (*Rhamnus*) susceptible to crown rust (*Puccinia coronata*) of oats. 10¢.

Department Bulletins:

- *629 D. Greenhouse experiments on the rust resistance of oat varieties. 5¢.
- *1275 D. Varietal susceptibility of oats to loose and covered smuts. 10¢.

Miscellaneous Publications:

- 21 MP. Formaldehyde seed treatment for oat smuts. 5¢.
- 131 MP. A dangerous neighbor for wheat, oats, barley, and rye. (Barberry.) 5¢.

Technical Bulletins:

- *143 T. Field studies on the rust resistance of oat varieties. 10¢.
- 422 T. Field studies on resistance of hybrid selections of oats to covered and loose smuts. 5¢.

Marketing: Oats**Department Bulletins:**

- *1083 D. Farm and terminal market prices. Wheat, corn, and oats, crop movement, year 1920-21. 10¢.

Bureau of Agricultural Economics Service and Regulatory Announcements:

- Apply direct to the Bureau of Agricultural Economics, U. S. Department of Agriculture, Washington, D. C., for the following:
- 144 Official grain standards of the United States for wheat, barley, feed oats, oats, etc.

RICE**Farmers' Bulletins:**

- *673 F. Irrigation practice in rice growing. 5¢.
- 1092 F. Prairie rice culture in the United States. 5¢.
- 1212 F. Straighthead of rice and its control. 5¢.
- 1240 F. How to grow rice in the Sacramento Valley. 5¢.
- 1420 F. Handling rough rice to produce high grades. 5¢.

Circulars:

- *48 C. Improved apparatus and method for making "shellings" of rough rice. 10¢.
- *136 C. The Gehl laboratory rice-scouring device. 5¢.
- 292 C. Artificial drying of rice on the farm. 5¢.
- 340 C. Effect of parboiling rough rice on milling quality. 5¢.

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Department Bulletins:

- *1127 D. Some new varieties of rice. 10¢.
- *1155 D. Rice experiments at the Biggs Rice Field Station in California. 10¢.
- *1356 D. Experiments in rice production in southwestern Louisiana. 10¢.
- *1387 D. Experiments in rice culture at the Biggs Rice Field Station in California. 10¢.

Miscellaneous Publications:

- 132 MP. Rice and its by-products for feeding livestock. 5¢.

Yearbook Separates:

- *891 Y. Oats, barley, rye, rice, grain sorghums, seed flax, and buckwheat. 15¢.

Diseases: Rice

Department Bulletins:

- *1116 D. Seedling blight and stack-burn of rice and the hot-water seed treatment. 10¢.

Insects and Other Pests: Rice

Farmers' Bulletins:

- 1543 F. Insects injurious to the rice crop. 5¢.

Marketing: Rice

Technical Bulletins:

- 297 T. Factors affecting the price of rice. 5¢.

Bureau of Agricultural Economics Service and Regulatory Announcements:

- Apply direct to the Bureau of Agricultural Economics, U. S. Department of Agriculture, Washington, D. C., for the following:
- 108 United States standards for milled rice, brown rice, and rough rice.

RYE

(See also Grains: General)

Farmers' Bulletins:

- *756 F. Culture of rye in the eastern half of the United States. 5¢.
- 1358 F. Growing rye in the western half of the United States. 5¢.

Statistical Bulletins:

- *12 S. Wheat and rye statistics: Year ended December 31, 1924, with comparable data for earlier years. 15¢.

Yearbook Separates:

- *891 Y. Oats, barley, rye, rice, grain sorghums, seed flax, and buckwheat. 15¢.

Diseases: Rye

Farmers' Bulletins:

- 1607 F. The nematode disease of wheat and rye. 5¢.

Department Bulletins:

- *1361 D. A mosaic disease of winter wheat and winter rye. 5¢.

Miscellaneous Publications:

- 131 MP. A dangerous neighbor for wheat, oats, barley, and rye. 5¢.

SORGHUMS

(See also Grains: General)

Farmers' Bulletins:

- 724 F. The feeding of grain sorghums to livestock. 5¢.
- *827 F. Shallu, or "Egyptian wheat": A late maturing variety of sorghum. 5¢.
- 1126 F. Sudan grass. 5¢.

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Farmers' Bulletins—Continued.

- 1158 F. Growing and utilizing sorghums for forage. 5¢.
 1389 F. Sorgo-sirup manufacture. 5¢.
 *1577 F. Harvesting grain sorghums. 5¢.
 1597 F. The production of Johnson grass for hay and pasturage. 5¢.
 1619 F. Sorgo for sirup production: Culture, harvesting, and handling. 5¢.
 1631 F. Broomcorn growing and handling. 5¢.

Circulars:

- *52 C. Varietal standardization of sorgo and the selection of seed. 10¢.

Department Bulletins:

- *634 D. A physical and chemical study of the kafir kernel. 5¢.
 *698 D. Grain sorghum experiments in the Panhandle of Texas. 15¢.
 *1129 D. A physical and chemical study of milo and feterita kernels. 5¢.
 *1284 D. Sorghum smuts and varietal resistance in sorghums. 15¢.

Statistical Bulletins:

- *29 S. Statistics of oats, barley, and grain sorghums: Year ended December 31, 1928, with comparable data for earlier years. 25¢.

Technical Bulletins:

- *43 T. Sorgo silage, sorgo fodder, and cottonseed hulls as roughages in rations for fattening calves in the Southwest. 10¢.
 *51 T. Broomcorn experiments at the United States Dry-Land Field Station, Woodward, Okla. 10¢.
 *100 T. Respiration of sorghum grains. 5¢.
 *121 T. Methods of harvesting grain sorghums. 10¢.
 *131 T. Spacing and date-of-seeding experiments with grain sorghums. 10¢.
 *347 T. An economic study of broomcorn production. 5¢.
 *506 T. Identification, history, and distribution of common sorghum varieties. 25¢.

Yearbook Separates:

- *891 Y. Oats, barley, rye, rice, grain sorghums, seed flax, and buckwheat. 15¢.
 1085 Y. Sorgo known as Atlas yields well and resists lodging. 5¢.

Diseases: Sorghums**Department Bulletins:**

- *1284 D. Sorghum smuts and varietal resistance in sorghums. 15¢.

WHEAT

(See also Grains: General)

Farmers' Bulletins:

- 596 F. The culture of winter wheat in the eastern United States. 5¢.
 885 F. Wheat growing in the Southeastern States. 5¢.
 1047 F. Dry farming for better wheat yields. 5¢.
 1168 F. Varieties of winter wheat adapted to the eastern United States. 5¢.
 1305 F. The soft red winter wheats. 5¢.
 1340 F. Polish and poulard wheats. 5¢.
 1545 F. Dry-farming methods and practices in wheat growing in Columbia and Snake River Basins. 5¢.
 1585 F. Varieties of hard red winter wheat. 5¢.
 1621 F. Varieties of hard red spring wheat. 5¢.
 1706 F. Varieties of durum wheat. 5¢.
 1707 F. Varieties of common white wheat. 5¢.
 1708 F. Varieties of club wheat. 5¢.

Leaflets:

- 33 L. The combination cleaning and treating of seed wheat. 5¢.

Circulars:

- *141 C. Hardiness and yield of winter-wheat varieties. 5¢.
 283 C. Distribution of the varieties and classes of wheat in the United States in 1929. 10¢.
 325 C. Field experiments with vernalized wheat. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Department Bulletins:

- *357 D. Alaska and Stoner, or "Miracle" wheats: Two varieties much misrepresented. 5¢.
- *400 D. Experiments with Marquis wheat. 10¢.
- *450 D. Improvement of Ghirka spring wheat in yield and quality. 5¢.
- *455 D. The drying for milling purposes of damp and garlicky wheat. 5¢.
- *478 D. The origin, characteristics, and quality of Humpback wheat. 5¢.
- *522 D. Characteristics and quality of Montana-grown wheat. 10¢.
- *557 D. A comparison of several classes of American wheats and a consideration of some factors influencing quality. 5¢.
- 574 D. The conversion of the weights of mechanical separations of corn, wheat, and other grains into percentages. 5¢.
- *618 D. Experiments with durum wheat. 10¢.
- *788 D. Moisture in wheat and mill products. 5¢.
- *878 D. Varietal experiments with spring wheat on the northern Great Plains. 15¢.
- *1004 D. Use of water by spring wheat on the Great Plains. 10¢.
- *1130 D. Significance of wheat hairs in microscopical examination of flour. 5¢.
- *1139 D. Storage of water in soil and its utilization by spring wheat. 5¢.
- *1173 D. Experiments in wheat production on the dry lands of the western United States. 10¢.
- *1183 D. Milling and baking experiments with American wheat varieties. 15¢.
- *1192 D. Improvement of Kubanka durum wheat by pure-line selection. 5¢.
- *1198 D. Cost of producing winter wheat in central Great Plains region of the United States. 10¢.
- *1202 D. Tractors and horses in the winter wheat belt, Oklahoma, Kansas, Nebraska. 10¢.
- *1211 D. Sources of supply and conditions of employment of harvest labor in the Wheat Belt. 5¢.
- *1276 D. Varietal experiments with hard red winter wheats in the dry areas of the western United States. 10¢.
- *1403 D. Segregation and correlated inheritance in Marquis and Hard Federation crosses, with factors for yield and quality of spring wheat in Montana. 15¢.
- *1420 D. Relation of kernel texture to the physical characteristics, milling and baking qualities, and chemical composition of wheat. 5¢.
- *1446 D. Cost of producing winter wheat and incomes from wheat farming in Sherman County, Oreg. 10¢.
- *1447 D. Cost of using horses, tractors, and combines on wheat farms in Sherman County, Oreg. 10¢.
- *1460 D. Testing wheat for protein with a recommended method for making the test. 5¢.
- *1463 D. Influence of granulation on chemical composition and baking quality of flour. 10¢.

Department Circulars:

- *280 DC. Kota wheat. 5¢.
- *305 DC. Electrochemical treatment of seed wheat. 5¢.
- *378 DC. Comparative hardiness of winter-wheat varieties. 5¢.

Miscellaneous Circulars:

- *28 MC. Tables for converting crude protein and ash content to a uniform moisture base. 5¢.
- *95 MC. Unclean seed wheat causes loss of millions. To control the losses, clean all seed wheat. 5¢.

Miscellaneous Publications:

- *95 MP. The world wheat outlook, 1930, and facts that farmers should consider. 10¢.
- 96 MP. Feeding wheat to livestock. 5¢.
- 140 MP. Protein tests for wheat and oil tests for flaxseed and soybeans. 10¢.

Statistical Bulletins:

- *12 S. Wheat and rye statistics: Year ended December 31, 1924, with comparable data for earlier years. 15¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

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Technical Bulletins:

- *38 T. Rate and date of seeding and seed-bed preparation for winter wheat at Arlington Experiment Farm. 5¢.
- *39 T. Inheritance of awnedness, yield, and quality in crosses between Bobs, Hard Federation, and Propo wheats at Davis, Calif. 10¢.
- *79 T. Major transactions in the 1926 December wheat future. 10¢.
- *133 T. Flax cropping in mixture with wheat, oats, and barley. 10¢.
- *136 T. Breeding hard red winter wheats for winter hardiness and high yield. 5¢.
- *197 T. Milling and baking qualities of world wheats. 35¢.
- *218 T. Inheritance of winter hardiness, growth habit, and stem-rust reaction in crosses between Minhardi winter and H-44 spring wheats. 15¢.
- *329 T. Experiments in wheat production on the dry lands of Oregon, Washington, and Utah. 10¢.
- *459 T. Classification of wheat varieties grown in the United States. 25¢.

Yearbook Separates:

- *649 Y. Hard wheats winning their way. 10¢.
- *752 Y. The world's supply of wheat. 5¢.
- *846 Y. The cost of a bushel of wheat. 5¢.
- *873 Y. Wheat production and marketing. 10¢.

Diseases: Wheat**Farmers' Bulletins:**

- *1414 F. The rosette disease of wheat and its control. 5¢.
- 1544 F. The common barberry and black stem rust. 5¢.
- 1599 F. Scab of wheat and barley and its control. 5¢.
- 1607 F. The nematode disease of wheat and rye. 5¢.
- 1711 F. Wheat smuts and their control. 5¢.

Circulars:

- 81 C. Removing smut from Pacific Northwest wheat by washing. 5¢.
- *182 C. Stinking smut (bunt) in wheat and how to prevent it. 10¢.
- 361 C. Removing smut balls from seed wheat. 5¢.

Department Bulletins:

- *842 D. The nematode disease of wheat caused by *Tylenchus tritici*. 20¢.
- *1137 D. Symptoms of wheat rosette compared with those produced by certain insects. 5¢.
- *1210 D. Summary of literature on bunt, or stinking smut, of wheat. 10¢.
- *1239 D. Studies in the physiology and control of bunt, or stinking smut, of wheat. 10¢.
- *1299 D. Relative resistance of wheat to bunt in the Pacific Coast States. 5¢.
- *1347 D. Foot-rot diseases of wheat in America. 10¢.
- *1361 D. A mosaic disease of winter wheat and winter rye. 5¢.
- *1383 D. Single-bath hot-water and steam treatments of seed wheat for the control of loose smut. 5¢.

Department Circulars:

- *188 DC. Progress of barberry eradication. 10¢.
- *268 DC. Kill the common barberry with chemicals. 5¢.
- *269 DC. Barberry eradication prevents black rust in western Europe. 5¢.
- *273 DC. Flag smut of wheat. 5¢.
- *332 DC. Chemical eradication of the common barberry. 5¢.
- *365 DC. Relative susceptibility of spring-wheat varieties to stem rust. 5¢.
- *394 DC. Copper carbonate prevents bunt (stinking smut) of wheat. 5¢.
- *424 DC. Further studies on flag smut of wheat. 5¢.

Miscellaneous Circulars:

- 108 MC. Copper-carbonate seed treatment for stinking smut of wheat. 5¢.

Miscellaneous Publications:

- *7 MP. Bread or barberries. 5¢.
- *131 MP. A dangerous neighbor for wheat, oats, barley, and rye. (Barberry.) 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Technical Bulletins:

- *300 T. Susceptibility and resistance of *Berberis* and related genera to *Puccinia graminis*. 10¢.
- 313 T. Studies on physiologic specialization in *Puccinia triticina*. 10¢.
- *314 T. Factors affecting the development of the aecial stage of *Puccinia graminis*. 10¢.
- *385 T. Inheritance of stem-rust reaction and correlation of characters in Pentad, Nodak, and Akrona durum-wheat crosses. 5¢.
- 433 T. Physiologic specialization in *Puccinia coronata avenae*. 5¢.

Yearbook Separates:

- *796 Y. The black stem rust and the barberry. 5¢.

Insects and Other Pests: Wheat

Farmers' Bulletins:

- 1006 F. The wheat jointworm and its control. 5¢.
- 1323 F. The wheat strawworm and its control. 5¢.

Department Bulletins:

- *1137 D. Symptoms of wheat rosette compared with those produced by certain insects. 5¢.

Posters:

- The wheat joint worm. E.-178.

Marketing: Wheat

Farmers' Bulletins:

- *919 F. The application of dockage in the marketing of wheat. 5¢.

Circulars:

- 397 C. Analysis of open commitments in wheat and corn futures on the Chicago Board of Trade, September 29, 1934. 5¢.

Department Bulletins:

- *734 D. Nematode galls as a factor in the marketing and milling of wheat. 5¢.
- *1083 D. Farm and terminal market prices. Wheat, corn, and oats, crop movement, year 1920-21. 10¢.

Miscellaneous Publications:

- 187 MP. Inspection of United States wheat exported through Canadian ports. 5¢.

Statistical Bulletins:

- 41 S. Wheat futures: Volume of trading, open commitments and prices from January 2, 1930, to December 31, 1932. 10¢.

Technical Bulletins:

- *6 T. Heat-damaged wheat. 10¢.
- 535 T. Wheat requirements in Europe. (Especially pertaining to quality and type, and to milling and baking practices.) 15¢.

Yearbook Separates:

- *873 Y. Wheat production and marketing. 10¢.

Bureau of Agricultural Economics Service and Regulatory Announcements:

- Apply direct to the Bureau of Agricultural Economics, U. S. Department of Agriculture, Washington, D. C., for the following:
- 144 Official grain standards of the United States for wheat, barley, feed oats, oats, etc.

OTHER GRAINS

(See also Grains: General)

Farmers' Bulletins:

- 1062 F. Buckwheat. 5¢.
- 1162 F. Proso, or hog millet. 5¢.
- 1429 F. Emmer and spelt. 5¢.
- 1631 F. Broomcorn: Growing and handling. 5¢.
- 1679 F. Pop corn. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

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Circulars:

- 190 C. Buckwheat milling and its by-products. 5c.

Department Bulletins:

- *1197 D. Experiments with emmer, spelt, and einkorn. 10c.

Department Circulars:

- *124 DC. Spur feterita. 5c.

Technical Bulletins:

- *51 T. Broomcorn experiments at the United States Dry-land Field Station, Woodward, Okla. 10c.
347 T. An economic study of broomcorn production. 5c.

Yearbook Separates:

- *891 Y. Oats, barley, rye, rice, grain sorghums, seed flax, and buckwheat. 15c.

Marketing: Other Grains

Farmers' Bulletins:

- 1631 F. Broomcorn: Growing and handling. 5c.

MUSHROOMS

Farmers' Bulletins:

- 1587 F. Mushroom culture for amateurs. 5c.

Circulars:

- 143 C. Some common mushrooms and how to know them. 20c.
251 C. Mushroom growing in the United States. 5c.

Insects and Other Pests: Mushrooms

Circulars:

- *364 C. Cyanide fumigation of mushroom houses. 5c.

NUTS AND NUT TREES

Farmers' Bulletins:

- 1392 F. Black walnut for timber and nuts. 5c.
1501 F. Nut-tree propagation. 5c.
1656 F. Peanut growing. 5c.

Leaflets:

- 71 L. Fertilizers for pecan soils. 5c.
84 L. Planting black walnut. 5c.

Circulars:

- 233 C. Effect of cold storage and age of seed on germination and yield of peanuts. 5c.
*272 C. Tests of varieties and strains of large-seeded Virginia-type peanuts. 5c.

Department Bulletins:

- *666 D. The effect of alkali treatment on cocoas. 5c.
*1282 D. Almond varieties in the United States. 30c.
1413 D. Cocoa by-products and their utilization as fertilizer materials. 10c.

Department Circulars:

- *383 DC. The search in foreign countries for blight-resistant chestnuts and related tree crops. 5c.

Technical Bulletins:

- *257 T. Deterioration of chestnut in the southern Appalachians. 10c.
324 T. An economic study of the pecan industry. 10c.

Diseases: Nuts and Nut Trees

Farmers' Bulletins:

- 1641 F. Chestnut blight. 5c.
*1672 F. Diseases of pecans in the Southern States. 5c.

For information in obtaining publications free and for sale, see p. 2, How to Order.

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Circulars:

- *331 C. Walnut blight and its control in the Pacific Northwest. 5¢.

Department Bulletins:

- *380 D. *Endothia parasitica* and related species. 35¢.
 *756 D. Pecan rosette in relation to soil deficiencies. 5¢.
 *1102 D. Kernel-spot of the pecan and its cause. 5¢.
 *1378 D. Relation of soil conditions and orchard management to the rosette of pecan trees. 10¢.

Department Circulars:

- *386 DC. Commercial control of the pecan scab. 5¢.
 *412 DC. Dusting with monohydrated copper sulphate and lime for control of pecan scab. 5¢.

Yearbook Separates:

- *598 Y. Chestnut bark disease. 10¢.

Insects and Other Pests: Nuts and Nut Trees

Farmers' Bulletins:

- 1654 F. Insects of the pecan and how to combat them. 5¢.

Circulars:

- 234 C. Black pit of the pecan and some insects causing it. 5¢.
 295 C. The obscure scale on the pecan and its control. 5¢.

Department Bulletins:

- *992 D. Walnut husk-maggot. 5¢.
 *1303 D. The pecan nut case-bearer. 5¢.

Technical Bulletins:

- *130 T. The chestnut curculios. 10¢.

Marketing: Nuts and Nut Trees

Department Bulletins:

- *1401 D. Marketing peanuts. 25¢.

ORNAMENTAL PLANTS AND TREES

(See also Crop Culture: General; Forestry; Seeds; and Weeds)

Farmers' Bulletins:

- 157 F. The propagation of plants. 5¢.
 750 F. Roses for the home. 5¢.
 1087 F. Beautifying the farmstead. 5¢.
 1171 F. Growing annual flowering plants. 5¢.
 1208 F. Trees for town and city streets. 5¢.
 1209 F. Planting and care of street trees. 5¢.
 1311 F. Chrysanthemums for the home. 5¢.
 1370 F. Dahlias for the home. 5¢.
 1381 F. Herbaceous perennials. 10¢.
 *1406 F. Garden irises. 5¢.
 1482 F. Trees for roadside planting. 5¢.
 1567 F. Propagation of trees and shrubs. 5¢.
 1591 F. Transplanting trees and shrubs. 5¢.
 1677 F. Planting and care of lawns. 5¢.
 1726 F. Treatment and care of tree wounds. 5¢.

Leaflets:

- 18 L. Bamboos and bamboo culture. 5¢.
 *36 L. Gourds for bird houses and other purposes. 5¢.
 90 L. Rockeries. 5¢.

Circulars:

- *42 C. The yellow day lilies. 5¢.
 *66 C. Cacti. 25¢.
 68 C. Azaleas and rhododendrons from seed. 5¢.
 112 C. The production of hyacinth bulbs. 10¢.
 *113 C. Experiments with hot-water treatment of daffodils in relation to forcing and field culture. 15¢.
 *215 C. Commercial forcing of lilies-of-the-valley. 10¢.
 *299 C. Some hybrid Martagon lilies. 20¢.
 311 C. Bulbs from seed. 5¢.

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Circulars—Continued.

- 313 C. The oriental flowering cherries. 10¢.
 *367 C. Speeding up flowering in the daffodil and the bulbous iris. 5¢.
 *372 C. Tulips. 10¢.

Department Bulletins:

- *9 D. An economic study of acacias. 10¢.
 *1133 D. The freezing temperatures of some fruits, vegetables, and cut flowers. 5¢.
 *1327 D. Production of grape-hyacinth bulbs. 5¢.
 *1331 D. The Madonna lily. 5¢.
 *1459 D. The Regal lily. 10¢.
 *1462 D. American bulbs under glass. 15¢.

Department Circulars:

- *155 DC. How teachers may use Farmers' Bulletin 1087, Beautifying the Farmstead. 5¢.

Miscellaneous Publications:

- 85 MP. Horticultural exhibitions. 10¢.
 *191 MP. Roadside improvement. 10¢.

Diseases: Ornamental Plants and Trees**Farmers' Bulletins:**

- 1345 F. Root-knot: Its cause and control. 5¢.
 1547 F. Rose diseases: Their causes and control. 5¢.

Circulars:

- 322 C. Outbreaks of the Dutch elm disease in the United States. 5¢.

Department Bulletins:

- *1417 D. Ozonium root rot. 15¢.

Insects and Other Pests: Ornamental Plants and Trees**Farmers' Bulletins:**

- *650 F. The San Jose scale and its control. 5¢.
 701 F. The bagworm, an injurious shade-tree insect. 5¢.
 702 F. Cottontail rabbits in relation to trees and farm crops. 5¢.
 705 F. The catalpa sphinx. 5¢.
 708 F. The leopard moth: A dangerous imported insect enemy of shade trees. 5¢.
 *723 F. The oyster-shell scale and the scurfy scale. 5¢.
 *880 F. Fumigation of ornamental greenhouse plants with hydrocyanic-acid gas. 5¢.
 *1076 F. California oak worm. 5¢.
 *1154 F. The aspen borer and how to control it. 5¢.
 1169 F. Insects injurious to deciduous shade trees and their control. 10¢.
 1252 F. Sawflies injurious to rose foliage. 5¢.
 1306 F. Insect enemies of chrysanthemums. 5¢.
 *1344 F. The strawberry rootworm as an enemy of the greenhouse rose. 5¢.
 1362 F. Insects injurious to ornamental greenhouse plants. 10¢.
 *1397 F. Mouse control in field and orchard. 5¢.
 1495 F. Insect enemies of the flower garden. 5¢.
 1569 F. Earthworms as pests and otherwise. 5¢.
 *1623 F. The gypsy moth and the brown-tail moth. 5¢.

Circulars:

- *51 C. The chinch bug in relation to St. Augustine grass. 5¢.
 *117 C. The Asiatic beetle: A serious pest in lawns. 5¢.
 237 C. Control of the Japanese beetle on fruit and shade trees. 5¢.
 *238 C. Control of larvae of the Japanese and the Asiatic beetles in lawns and golf courses. 5¢.
 246 C. Life history and control of the Asiatic garden beetle. 5¢.
 248 C. Sod webworms and their control in lawns and golf greens. 5¢.
 *277 C. The oriental moth (*Cnidocampa flavescens* Walk.) and its control. 5¢.
 305 C. The boxwood leaf miner and its control. 5¢.
 317 C. Protection of orchard and shade trees and ornamental shrubs from injury by the Japanese beetle. 5¢.

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Circulars—Continued.

- *365 C. The camphor scale. 5¢.
- *381 C. Rodents and moles as pests in bulb plantings. 5¢.
- 403 C. Preventing injury from Japanese and Asiatic beetle larvae to turf in parks and other large areas. 5¢.

Department Bulletins:

- *184 D. The huisache girdler. 5¢.
- *226 D. The verbena bud moth. 5¢.
- *838 D. Cypress bark scale. 10¢.
- *1076 D. Biology of the lotus borer (*Pyrausta penitalis* Grote). 5¢.
- *1223 D. The European elm scale in the West. 10¢.
- *1238 D. The cankerworms. 10¢.
- *1357 D. The strawberry rootworm, a new pest on greenhouse roses. 10¢.
- *1469 D. The satin moth, a recently introduced pest. 10¢.

Department Circulars:

- *380 DC. Calcium cyanide as a fumigant for ornamental greenhouse plants. 5¢.

Miscellaneous Publications:

- 201 MP. Traps for the Japanese beetle and how to use them. 5¢.

Technical Bulletins:

- *83 T. The Pacific flathead borer. 15¢.
- *86 T. Imported insect enemies of the gipsy moth and the brown-tail moth. 50¢.
- *111 T. Fish oil as an adhesive in lead-arsenate sprays. 10¢.

Marketing: Ornamental Plants and Trees

Circulars:

- 207 C. Deterioration of Christmas holly in transit and storage. 10¢.
- 278 C. The commercial storage of fruits, vegetables, and florists' stocks. 5¢.

SEEDS

(See also Crop Culture: General; and specific crop)

Farmers' Bulletins:

- 434 F. The home production of onion seed and sets. 5¢.
- 676 F. Hard clover seed and its treatment in hulling. 5¢.
- 948 F. The rag-doll seed tester: Its use in determining what ears of corn are fit for seed. 5¢.
- 1175 F. Better seed corn. 5¢.
- *1253 F. Seed peas for the canner. 5¢.
- 1332 F. Seed potatoes and how to produce them. 5¢.
- 1390 F. Vegetable seeds for the home and market garden. 5¢.
- *1411 F. Crimson clover: Seed production. 5¢.
- 1605 F. Soybean hay and seed production. 5¢.
- 1650 F. Flaxseed production by power farming methods in the northern Great Plains. 5¢.
- 1747 F. Flaxseed production in the North Central States. 5¢.

Leaflets:

- 33 L. The combination cleaning and treating of seed wheat. 5¢.
- 93 L. Red-clover seed production in the intermountain States. 5¢.
- 107 L. The barrel seed scarifier. 5¢.
- 115 L. Timothy seed production. 5¢.

Circulars:

- *9 C. The Bates laboratory aspirator. 5¢.
- *20 C. Seed production from sugar beets overwintered in the field. 5¢.
- *52 C. Varietal standardization of sorgo and the selection of seed. 10¢.
- *53 C. A seed counter. 5¢.
- *79 C. The application of statistical methods to seed testing. 5¢.
- 112 C. The production of hyacinth bulbs. 10¢.
- *153 C. Methods of seed production from sugar beets overwintered in the field. 10¢.
- *210 C. Field tests of imported red-clover seed. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

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Circulars—Continued.

- *286 C. Community production and distribution of cotton planting seed in a one-variety cotton community. 5¢.
- 311 C. Bulbs from seed. 5¢.
- 325 C. Field experiments with vernalized wheat. 5¢.
- 345 C. Barrel and disk seed scarifiers. 5¢.
- 366 C. Safflower, a possible new oil-seed crop for the northern Great Plains and the far Western States. 5¢.
- *377 C. Vernalization experiments with forage crops. 5¢.
- *402 C. Blue grama grass for erosion control and range reseeding in the Great Plains and a method of obtaining seed in large lots. 5¢.

Department Bulletins:

- *948 D. Composition of cotton seed. 25¢.
- *1195 D. Sterilities of wild and cultivated potatoes with reference to breeding from seed. 10¢.
- *1219 D. Delinting and recleaning cottonseed for planting purposes. 10¢.
- *1327 D. Production of grape-hyacinth bulbs. 5¢.
- *1462 D. American bulbs under glass. 15¢.
- *1468 D. Variability in the linkage of two seed characters of maize. 10¢.
- *1471 D. Oil content of flaxseed, with comparisons of tests for determining oil content. 10¢.

Department Circulars:

- *156 DC. How teachers may use Farmers' Bulletin 1175, Better Seed Corn. 5¢.
- *183 DC. Seedtime and harvest: A graphic summary of seasonal work on farm crops. 15¢.
- *205 DC. Cotton-seed mixing increased by modern gin equipment. 5¢.
- *305 DC. Electrochemical treatment of seed wheat. 5¢.
- *341 DC. Seed flax as a farm crop in 1925. 5¢.
- *406 DC. Rules for seed testing. 5¢.

Miscellaneous Circulars:

- *95 MC. Unclean seed wheat causes loss of millions: To control the losses, clean all seed wheat. 5¢.

Miscellaneous Publications:

- 149 MP. The vertical seed-cotton drier. 5¢.
- 203 MP. Cotton and cottonseed: A list of the publications of the United States Department of Agriculture on these subjects, including early reports of the United States Patent Office. 15¢.
- 219 MP. Treat seed grain. 5¢.
- *226 MP. The tobacco and *Solanum* weevils of the genus *Trichobaris*. 5¢.

Statistical Bulletins:

- *2 S. Seed statistics: Year ending May 31, 1923, with comparable data for earlier years. 15¢.

Technical Bulletins:

- *5 T. Source, character, and treatment of potato sets. 10¢.
- *38 T. Rate and date of seeding and seed-bed preparation for winter wheat at Arlington Experiment Farm. 5¢.
- *39 T. Inheritance of awniness, yield, and quality in crosses between Bobs, Hard Federation, and Propo wheats at Davis, Calif. 10¢.
- *71 T. A simple method for determining the oil content of seeds and other oil-bearing materials. 5¢.
- *119 T. Influence of freezing of seed potatoes on viability and yield. 5¢.
- *191 T. The production, extraction, and germination of lodgepole pine seed. 20¢.
- *415 T. Shortening the rest period of the potato. 5¢.
- *424 T. Influence of storage temperatures on the rest period and dormancy of potatoes. 5¢.

Yearbook Separates:

- *757 Y. The seed supply of the nation. 5¢.
- *815 Y. What the farmer should expect from the seedman. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Photographs:

(For Sale Only. Apply direct to the Office of Information, U. S. Department of Agriculture, Washington, D. C., for this sales material.)
Photographs of weed seed found in commercial seed, 6½ by 8½, 15 in a set, \$1.80.

Diseases: Seeds

Circulars:

- 34 C. Chemical-dust seed treatments for dent corn. 5¢.
- 361 C. Removing smut balls from seed wheat. 5¢.

Department Bulletins:

- *1029 D. Seed treatment and rainfall in relation to the control of cabbage black-leg. 10¢.
- *1116 D. Seedling blight and stack-burn of rice and the hot-water seed treatment. 10¢.
- *1383 D. Single-bath hot-water and steam treatments of seed wheat for the control of loose smut. 5¢.

Department Circulars:

- *311 DC. Cabbage-seed treatment. 5¢.

Miscellaneous Publications:

- 21 MP. Formaldehyde seed treatment for oat smuts. 5¢.
- *53 MP. Disinfecting seed potatoes. 5¢.
- 199 MP. Barley diseases controlled by seed treatment. 5¢.

Technical Bulletins:

- *207 T. Seed treatment for controlling covered smut of barley. 5¢.

Insects and Other Pests: Seeds

Farmers' Bulletins:

- 1642 F. Chalcid control in alfalfa-seed production. 5¢.

Circulars:

- *381 C. Rodents and moles as pests in bulb plantings. 5¢.

Marketing: Seeds

Farmers' Bulletins:

- 1232 F. Seed marketing hints for the farmer. 5¢.
- 1308 F. Marketing the cowpea seed crop. 5¢.

Department Bulletins:

- *1056 D. Marketing cotton seed for planting purposes. 5¢.

Technical Bulletins:

- *117 T. Comparative influence of different storage temperatures on weight losses and vitality of seed potatoes. 5¢.

Bureau of Agricultural Economics Service and Regulatory Announcements:

- Apply direct to the Bureau of Agricultural Economics, U. S. Department of Agriculture, Washington, D. C., for the following:
- 133 The official standards of the United States for the grading, sampling, and analysing of cottonseed sold or offered for sale for crushing purposes.

SOIL BUILDING CROPS

(See also Soils)

Farmers' Bulletins:

- *1021 F. Alfalfa on Corn Belt farms. 5¢.
- 1148 F. Cowpeas: Culture and varieties. 5¢.
- *1151 F. Alsike clover. 5¢.
- 1153 F. Cowpeas: Utilization. 5¢.
- 1229 F. Utilization of alfalfa. 5¢.
- 1250 F. Green manuring. 5¢.
- *1255 F. Production of peas for canning. 5¢.
- *1276 F. The velvet bean. 5¢.
- *1411 F. Crimson clover seed production. 5¢.
- 1509 F. Bean growing. 5¢.
- 1605 F. Soybean, hay, and seed production. 5¢.
- 1617 F. Soybean utilization. 5¢.

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Farmers' Bulletins—Continued.

- 1653 F. Sweetclover in Corn Belt farming. 5¢.
 1663 F. Winter legumes for green manure in Cotton Belt. 5¢.
 1722 F. Growing alfalfa. 5¢.
 1724 F. Farm practice with lespedeza. 5¢.
 1740 F. Vetch culture and uses. 5¢.
 1741 F. Bur-clover cultivation and utilization. 5¢.
 1750 F. Summer crops for green manure and soil improvement. 5¢.

Leaflets:

- 23 L. Sweet clover. 5¢.
 91 L. Kudzu: A forage crop for the Southeast. 5¢.
 100 L. Lespedeza. 5¢.

Circulars:

- 137 C. Crotalaria: A new legume for the South. 10¢.

Technical Bulletins:

- *367 T. The use of winter legumes in the Southeastern States. 5¢.
 *380 T. Sweetclover in Great Plains farming. 5¢.

SOIL CONSERVING CROPS*(See also Soils)***Farmers' Bulletins:**

- *756 F. Culture of rye in the eastern half of the United States. 5¢.
 990 F. Timothy. 5¢.
 1062 F. Buckwheat. 5¢.
 1126 F. Sudan grass. 5¢.
 *1151 F. Alsike clover. 5¢.
 1158 F. Growing and utilizing sorghums for forage. 5¢.
 1254 F. Important cultivated grasses. 5¢.
 1358 F. Growing rye in the western half of the United States. 5¢.
 1520 F. Soy beans: Culture and varieties. 5¢.
 1597 F. The production of Johnson grass for hay and pasturage. 5¢.
 1602 F. Reed canary grass. 5¢.
 1640 F. Fall-sown oat production. 5¢.
 1653 F. Sweetclover in Corn Belt farming. 5¢.
 1669 F. Farm terracing. 5¢.
 1722 F. Growing alfalfa. 5¢.
 1724 F. Farm practice with lespedeza. 5¢.
 1758 F. Cover crops for soil conservation. 5¢.

Leaflets:

- 23 L. Sweet clover. 5¢.
 100 L. Lespedeza. 5¢.
 104 L. Crested wheatgrass. 5¢.
 110 L. Why red clover fails. 5¢.

Circulars:

- 328 C. Methods of reestablishing buffalo grass on cultivated land in the Great Plains. 10¢.

Miscellaneous Publications:

- 194 MP. A pasture handbook. 10¢.

Technical Bulletins:

- *380 T. Sweetclover in Great Plains farming. 5¢.

SUGAR CROPS*(See also Crop Culture: General)***Farmers' Bulletins:**

- *1042 F. Saving man labor in sugar-beet fields. 5¢.
 1366 F. Production of maple sirup and sugar. 5¢.
 1389 F. Sorgo-sirup manufacture. 5¢.
 1619 F. Sorgo for sirup production: Culture, harvesting, and handling. 5¢.
 1637 F. Sugar-beet culture in the humid area of the United States. 5¢.
 1645 F. Sugar-beet growing under irrigation in the Utah-Idaho area. 5¢.
 1718 F. Important sugar-beet byproducts and their utilization. 5¢.

Leaflets:

- 97 L. Cross-blocking sugar beets by machine. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

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Circulars:

- *20 C. Seed production from sugar beets overwintered in the field. 5¢.
- *52 C. Varietal standardization of sorgo and the selection of seed. 10¢.
- *88 C. Variety tests of sugarcanes in Louisiana during the crop year 1927-28. 5¢.
- *97 C. Rate of deterioration of sugar content of some P. O. J. sugarcane varieties in Louisiana. 5¢.
- *153 C. Methods of seed production from sugar beets overwintered in the field. 10¢.
- *156 C. Transplanting sugar beets in Utah and Idaho. 5¢.
- *162 C. Variety tests of sugarcanes in Louisiana during the crop year, 1928-29. 5¢.
- *187 C. Variety tests of sugarcanes in Louisiana during the crop year, 1929-30. 5¢.
- *242 C. Variety tests of sugarcanes in Louisiana during the crop year 1930-31. 5¢.
- *284 C. Sugarcane for sirup production. 10¢.
- 298 C. Variety tests of sugarcanes in Louisiana during the crop year 1931-1932. 5¢.
- 304 C. Windrowing qualities of Co. 281 and other varieties of sugarcane under Louisiana conditions. 5¢.
- 316 C. Agronomic evaluation tests on mechanical blocking and cross cultivation of sugar beets. 5¢.
- 319 C. Fertilizer studies with sugar beets in the Arkansas Valley area, Colorado, 1921-28. 5¢.
- 324 C. Studies on handling sugarcanes frozen early in March in advanced stages of development. 5¢.
- 343 C. Variety tests of sugarcanes in Louisiana during the crop year 1932-33. 5¢.
- *368 C. Studies of ripening of sugarcane in Louisiana and of effect of topping upon yields of cane and sugar per acre. 5¢.
- 391 C. New sugar-beet varieties for the curly-top area. 5¢.
- *395 C. Variety tests of sugarcanes in Louisiana during the crop year 1933-34 and summary of annual results, 1926-34. 5¢.

Department Bulletins:

- *199 D. Loss in tonnage of sugar beets by drying. 5¢.
- *238 D. Sugar beets: Preventable losses in culture. 10¢.
- *466 D. Maple sugar: Composition, methods of analysis, effect of environment. 5¢.
- *693 D. Farm practice in growing sugar beets for three districts in Utah and Idaho, 1914-15. 10¢.
- *726 D. Farm practice in growing sugar beets for three districts in Colorado, 1914-15. 10¢.
- *735 D. Farm practice in growing sugar beets in the Billings region of Montana. 10¢.
- *917 D. Farm practice in growing field crops in three sugar-beet districts of Colorado. 20¢.
- *963 D. Cost of producing sugar beets in Utah and Idaho, 1918-1919. 10¢.
- *995 D. The beet-sugar industry in the United States in 1920. 20¢.
- *963 D. Cost of producing sugar beets in Utah and Idaho, 1918-1919. 10¢.
- *995 D. The beet-sugar industry in the United States in 1920. 20¢.
- *1158 D. Production of sirup from sweet potatoes. 10¢.
- 1370 D. Sugar-cane sirup manufacture. 10¢.

Department Circulars:

- *257 DC. Composition of filter press (lime) cake. 5¢.
- *319 DC. Composition of sugar-beet pulp and tops and of silage therefrom. 5¢.

Miscellaneous Circulars:

- *107 MC. Emergency methods for reconstitution of flooded sugar-cane districts in Louisiana. 5¢.

Technical Bulletins:

- 449 T. Storage of mill cane. 5¢.

Yearbook Separates:

- *893 Y. Sugar. 20¢.
- *1104 Y. Statistics of cotton, sugar, and tobacco, 1930. 5¢.
- *1149 Y. Statistics of cotton, sugar, and tobacco. (1931.) 10¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Yearbook Separates—Continued.

- *1407 Y. Statistics of cotton, sugar, and tobacco. (1934.) 5¢.
 *1479 Y. Statistics of cotton, sugar, and tobacco. (1935.) 10¢.

Diseases: Sugar Crops
Circulars:

- *115 C. The sugar-beet leaf-spot disease and its control by direct measures. 5¢.
 *273 C. Effects of time of planting and of fertilizer mixtures on the curly-top resistant sugarbeet variety U. S. No. 1 in Idaho. 5¢.
 *350 C. Economic importance of red rot and comparative susceptibility of some sugarcane varieties in the southern United States. 5¢.

Department Circulars:

- *388 DC. Resistance in sugar beets to curly-top. 5¢.
 *392 DC. Rare cases of mosaic disease in highly resistant varieties of sugar cane. 5¢.

Technical Bulletins:

- *360 T. Curly-top resistance in sugar beets and tests of the resistant variety U. S. No. 1. 10¢.

Insects and Other Pests: Sugar Crops
Farmers' Bulletins:

- *1193 F. The beet leaf-beetle and its control. 5¢.
 1514 F. Control of sugar-beet nematode by crop rotation. 5¢.

Circulars:

- *45 C. An application of sodium fluosilicate by airplane in an attempt to control the sugar-cane moth borer. 5¢.
 229 C. Weedy abandoned lands and the weed hosts of the beet leaf hopper. 5¢.
 *244 C. Movements of the beet leaf hopper in 1930 in southern Idaho. 5¢.

Department Bulletins:

- *104 D. Thrips as pollinators of beet flowers. 5¢.
 *892 D. The beet leaf-beetle. 15¢.

Department Circulars:

- *262 DC. Length of the dormancy period of the sugar-beet nematode in Utah. 5¢.
 *303 DC. Hot-water treatment of sugar cane for insect pests: A precaution. 5¢.

Technical Bulletins:

- *41 T. The sugar-cane moth borer in the United States. 25¢.
 *206 T. Ecological studies of the beet leaf hopper. 30¢.
 *363 T. The parasites of the sugarcane borer in Argentina and Peru, and their introduction into the United States. 5¢.

TOBACCO
Farmers' Bulletins:

- 523 F. Tobacco curing. 5¢.
 571 F. Tobacco culture. 5¢.
 1580 F. Cigar-tobacco production in Pennsylvania. 5¢.
 1629 F. Steam sterilization of soil for tobacco and other crops. 5¢.

Circulars:

- *100 C. Business analysis of the Tobacco Growers' Cooperative Association. 25¢.
 249 C. American tobacco types, uses, and markets. 20¢.

Department Bulletins:

- *1312 D. Loss of nicotine from nicotine dusts during storage. 5¢.

Technical Bulletins:

- *12 T. Fertilizer tests with flue-cured tobacco. 15¢.
 *175 T. Breeding tobacco for resistance to Thielavia root rot. 10¢.
 *414 T. The nitrogen nutrition of tobacco. 10¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Yearbook Separates:

- *1104 Y. Statistics of cotton, sugar, and tobacco. 1930. 5¢.
- *1149 Y. Statistics of cotton, sugar, and tobacco. (1931.) 10¢.
- *1407 Y. Statistics of cotton, sugar, and tobacco. (1934.) 5¢.
- *1479 Y. Statistics of cotton, sugar, and tobacco. (1935). 10¢.

Diseases: Tobacco

Circulars:

- *263 C. Downy mildew of tobacco. 5¢.

Department Bulletins:

- *562 D. The control of tobacco wilt in the flue-cured district. 5¢.
- *1256 D. Tobacco diseases and their control. 25¢.
- *1410 D. The brown root rot of tobacco and other plants. 10¢.

Insects and Other Pests: Tobacco

Farmers' Bulletins:

- *846 F. The tobacco beetle and how to prevent damage by it. 5¢.
- *1425 F. The tobacco flea-beetle in the dark fire-cured tobacco district of Kentucky and Tennessee. 5¢.
- 1489 F. The green June beetle larva in tobacco plant beds. 5¢.
- 1494 F. Tobacco cutworms and their control. 5¢.
- 1531 F. The tobacco budworm and its control in the Georgia and Florida tobacco-growing region. 5¢.

Circulars:

- *269 C. A pest of cured tobacco, *Esphestia elutella* Hubner. 5¢.
- *356 C. Trapping experiments for the control of the cigarette beetle. 5¢.

Miscellaneous Publications:

- *226 MP. The tobacco and *Solanum* weevils of the genus *Trichobaris*. 5¢.

Technical Bulletins:

- *88 T. Tobacco cutworms. 35¢.

Marketing: Tobacco

Circulars:

- 249 C. American tobacco types, uses, and markets. 20¢.

Department Circulars:

- *407 DC. Membership relations of cooperative associations (cotton and tobacco). 5¢.

Miscellaneous Circulars:

- 83 MC. United States standard tobacco sizes. 10¢.

Bureau of Agricultural Economics Service and Regulatory Announcements:

- Apply direct to the Bureau of Agricultural Economics, U. S. Department of Agriculture, Washington, D. C., for the following:
- 118 Classification of leaf tobacco covering classes, types, and groups of grades.
- 149 Rules and regulations under the tobacco inspection act.

VEGETABLES

(See also Seeds; Weeds)

VEGETABLES (General)

Farmers' Bulletins:

- *218 F. The school garden. 5¢.
- 1044 F. The city home garden. 5¢.
- 1242 F. Permanent fruit and vegetable gardens. 5¢.
- 1390 F. Vegetable seeds for the home and market garden. 5¢.
- 1673 F. The farm garden. 10¢.
- 1743 F. Hotbeds and coldframes. 5¢.
- 1746 F. Subsistence farm gardens. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Department Bulletins:

- *1005 D. Soils of eastern Virginia and their uses for truck crop production. 35¢.
- *1133 D. The freezing temperatures of some fruits, vegetables, and cut flowers. 5¢.
- *1427 D. Dry-land gardening at the Northern Great Plains Field Station, Mandan, N. Dak.

Statistical Bulletins:

- *22 S. Vegetable statistics: Year ended December 31, 1926, with comparable data for earlier years. 35¢.

Yearbook Separates:

- *686 Y. Color as an indication of the picking maturity of fruits and vegetables. 10¢.
- *702 Y. Development and localization of truck crops in the United States. 5¢.
- *900 Y. Fruits and vegetables, 1923. 10¢.
- *931 Y. Fruit and vegetable production. 65¢.
- *933 Y. Statistics of fruits and vegetables. 1927. 10¢.
- *1105 Y. Statistics of fruits and vegetables. 1930. 5¢.
- *1150 Y. Statistics of fruits and vegetables. (1931.) 15¢.
- *1348 Y. Statistics of fruits and vegetables. (1933.) 5¢.
- *1408 Y. Statistics of fruits and vegetables. (1934.) 5¢.
- *1480 Y. Statistics of fruits and vegetables. (1935.) 10¢.

Diseases: Vegetables (General)**Farmers' Bulletins:**

- 994 F. Commercial Bordeaux mixtures: How to calculate their values. 5¢.
- *1371 F. Diseases and insects of garden vegetables. 5¢.

Technical Bulletins:

- 318 T. Effect of solid and gaseous carbon dioxide upon transit diseases of certain fruits and vegetables. 10¢.
- *519 T. Transit and storage diseases of fruits and vegetables as affected by initial carbon dioxide treatments. 5¢.

Insects and Other Pests: Vegetables (General)**Farmers' Bulletins:**

- *721 F. The rose-chaffer: A destructive garden and vineyard pest. 5¢.
- 959 F. The spotted garden slug. 5¢.
- *1371 F. Diseases and insects of garden vegetables. 5¢.
- 1712 F. The harlequin bug and its control. 5¢.

Leaflets:

- 2 L. Cutworms in the garden. 5¢.

Circulars:

- *246 C. Life history and control of the Asiatic garden beetle. 5¢.

Department Bulletins:

- *689 D. The Southern green plant-bug. 10¢.

Miscellaneous Publications:

- *226 MP. The tobacco and *Solanum* weevils of the genus *Trichobaris* 5¢.

Technical Bulletins:

- *31 T. The larger sod webworm. 5¢.
- *34 T. The fall army worm. 25¢.

Marketing: Vegetables (General)**Farmers' Bulletins:**

- 1579 F. Containers used in shipping fruits and vegetables. 5¢.

Circulars:

- 250 C. American fruit and vegetable auctions. 5¢.
- 278 C. The commercial storage of fruits, vegetables, and florists' stocks. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Department Bulletins:

- *267 D. Methods of wholesale distribution of fruits and vegetables on large markets. 5¢.
- 1414 D. Management problems of cooperative associations marketing fruits and vegetables. 10¢.

Miscellaneous Publications:

- *75 MP. Method of testing the capacity of fruit and vegetable containers under the United States Standard Container Acts. 5¢.

Statistical Bulletins:

- *7 S. Shipments and unloads of certain fruits and vegetables, 1918-1923. 15¢.
- *9 S. Carload shipments of vegetables from stations in the United States for the calendar years 1920, 1921, 1922, and 1923. 15¢.
- *19 S. Carload shipments of fruits and vegetables from stations in the United States for the calendar years 1924 and 1925. 15¢.
- *23 S. Car-lot shipments and unloads of important fruits and vegetables for the calendar years 1924-1926. 25¢.
- 30 S. Car-lot shipments and unloads of important fruits and vegetables, for the calendar years 1927 and 1928. 25¢.
- 35 S. Car-lot shipments of fruits and vegetables from stations in the United States for the calendar years 1928 and 1929. 25¢.
- 38 S. Car-lot shipments and unloads of important fruits and vegetables for the calendar years 1929 and 1930. 15¢.
- 42 S. Car-lot shipments of fruits and vegetables from stations in the United States for the calendar years 1930 and 1931. 10¢.
- 46 S. Car-lot shipments and unloads of important fruits and vegetables for the calendar years 1931 and 1932. 15¢.
- *50 S. Car-lot shipments of fruits and vegetables from stations in the United States for the calendar years 1932 and 1933. 15¢.
- 53 S. Car-lot shipments and unloads of nineteen important fruits and vegetables for the calendar years 1933 and 1934. 15¢.

Technical Bulletins:

- *272 T. The marketing and distribution of fruits and vegetables by motor truck. 20¢.
- 445 T. Market distribution of car-lot shipments of fruits and vegetables in the United States. 5¢.

Yearbook Separates:

- 930 Y. Marketing fruits and vegetables. 10¢.

Bureau of Agricultural Economics Service and Regulatory Announcements:

Apply direct to the Bureau of Agricultural Economics, U. S. Department of Agriculture, Washington, D. C., for the following:

- 93 Rules and regulations of the Secretary of Agriculture governing the inspection and certification of fruits, vegetables, and other products: Amdt. 1—apples; amdt. 2—potatoes.

CABBAGES

(See also Vegetables: General)

Circulars:

- *252 C. Commercial cabbage culture. 10¢.

Miscellaneous Publications:

- *169 MP. Description of types of principal American varieties of cabbage. 50¢.

Diseases: Cabbages

Farmers' Bulletins:

- *1439 F. Diseases of cabbage and related plants. 5¢.

Department Bulletins:

- *1029 D. Seed treatment and rainfall in relation to the control of cabbage black-leg. 10¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Department Circulars:

- *311 DC. Cabbage-seed treatment. 5¢.

Marketing: Cabbages

Farmers' Bulletins:

- 1423 F. Preparation of cabbage for market. 5¢.

Department Bulletins:

- *1242 D. Marketing cabbage. 15¢.

CUCUMBERS

(See also Vegetables: General)

Farmers' Bulletins:

- 1320 F. The production of cucumbers in greenhouses. 5¢.
1563 F. Cucumber growing. 5¢.
*1620 F. Growing cucumbers for pickling. 5¢.

Diseases: Cucumbers

Department Bulletins:

- *879 D. The mosaic disease of cucurbits. 15¢.
*1461 D. Control of cucumber mosaic by eradication of wild host plants. 10¢.

Department Circulars:

- *234 DC. Bacterial spot of cucumbers. 5¢.
*321 DC. Control of cucumber mosaic in the greenhouse. 5¢

ONIONS

(See also Vegetables: General)

Farmers' Bulletins:

- 354 F. Onion culture. 5¢.
434 F. The home production of onion seed and sets. 5¢.

Circulars:

- *355 C. Effects of freezing and cold weather on immature onions. 5¢.

Department Circulars:

- *415 DC. Some effects of freezing on onions. 5¢.

Technical Bulletins:

- *475 T. Influence of storage temperature and humidity on keeping qualities of onions and onion sets. 5¢.

Diseases: Onions

Farmers' Bulletins:

- 1060 F. Onion diseases and their control. 5¢.

Marketing: Onions

Circulars:

- *135 C. Blemishes and discolorations of market onions. 5¢.

Department Bulletins:

- *1283 D. The marketing and distribution of American-grown Bermuda onions. 10¢.

POTATOES

(See also Sweet Potatoes)

Farmers' Bulletins:

- 1064 F. Production of late or main-crop potatoes. 5¢.
1205 F. Potato production in the South. 5¢.
1332 F. Seed potatoes and how to produce them. 5¢.
*1639 F. Potato production in the far Western States. 5¢.

Circulars:

- *191 C. Time of planting as affecting yields of Rural New Yorker and Triumph potatoes in the Greeley, Colo., district. 5¢.
*338 C. Distance of planting Rural New Yorker No. 2 and Triumph potatoes as affecting yield, hollow heart, growth cracks, and second-growth tubers. 5¢.
*374 C. The Katahdin, Chippewa, and Golden potatoes. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Department Bulletins:

- *1195 D. Sterilities of wild and cultivated potatoes with reference to breeding from seed. 10¢.
- *1388 D. Farm management problems on irrigated farms in hay and potato areas of the Yakima Valley, Wash. 15¢.
- *1465 D. A method of growing bacteriologically sterile potato plants. 15¢.

Miscellaneous Publications:

- *53 MP. Disinfecting seed potatoes. 5¢.

Statistical Bulletins:

- *10 S. Statistics of potatoes and sweet potatoes: Year ended July 31, 1924, with comparable data for earlier years. 10¢.

Technical Bulletins:

- *5 T. Source, character, and treatment of potato sets. 10¢.
- *7 T. Origin and distribution of the commercial potato crop. 15¢.
- *27 T. Freezing injury to potatoes. 10¢.
- *118 T. Studies in time and rate of irrigating potatoes in Colorado. 5¢.
- *119 T. Influence of freezing of seed potatoes on viability and yield. 5¢.
- 216 T. Effect of irrigation water on vigor and vitality of seed potatoes. 5¢.
- *415 T. Shortening the rest period of the potato. 5¢.
- *424 T. Influence of storage temperatures on the rest period and dormancy of potatoes. 5¢.
- *507 T. The cooking quality, palatability, and carbohydrate composition of potatoes as influenced by storage temperature. 5¢.

Diseases: Potatoes

Farmers' Bulletins:

- 1367 F. Control of potato-tuber diseases. 5¢.
- 1436 F. Why potatoes run out. 5¢.

Circulars:

- *271 C. Virus and viruslike diseases of the potato in the Northwest and their control. 5¢.

Department Bulletins:

- *577 D. Experiments in the control of potato leak. 5¢.
- *1156 D. Investigations of potato wart. 10¢.

Department Circulars:

- *32 DC. Potato wart: A dangerous new disease. 5¢.
- *214 DC. Fusarium tuber rot of potatoes. 5¢.
- *220 DC. Late-blight tuber rot of the potato. 5¢.
- *281 DC. Potato brown-rot. 5¢.

Miscellaneous Publications:

- *98 MP. Market diseases of fruits and vegetables: Potatoes. 30¢.

Technical Bulletins:

- *56 T. Factors of spread and repression in potato wart. 5¢.
- *62 T. Factors in the inception and development of fusarium rot in stored potatoes. 15¢.

Posters:

- 13 colored posters, 7¼ by 12 inches, of diseases of potatoes. 65¢ per set.

Insects and Other Pests: Potatoes

Farmers' Bulletins:

- *557 F. The potato-tuber moth. 5¢.
- *1462 F. The potato leafhopper and how to control it. 5¢.

Marketing: Potatoes

Farmers' Bulletins:

- *847 F. Potato storage and storage houses. 5¢.
- *1050 F. Handling and loading southern new potatoes. 5¢.
- *1091 F. Protection of potatoes from cold in transit—lining and loading cars. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Circulars:

- *87 C. Problems in cooperation and experiences of farmers in marketing potatoes. 5¢.
- 149 C. Marketing the commercial crop of early potatoes. 10¢.
- *158 C. A simple chemical test for predetermining the culinary quality of potatoes as affected by the accumulation of soluble sugars. 10¢.

Technical Bulletins:

- *117 T. Comparative influence of different storage temperatures on weight losses and vitality of seed potatoes. 5¢.

Bureau of Agricultural Economics Service and Regulatory Announcements:

Apply direct to the Bureau of Agricultural Economics, U. S. Department of Agriculture, Washington, D. C., for the following:
 93 Rules and regulations of the Secretary of Agriculture governing the inspection and certification of fruits, vegetables, and other products: Amdt. 1—apples; amdt. 2—potatoes.

SWEETPOTATOES*(See also Potatoes)***Farmers' Bulletins:**

- 999 F. Sweet-potato growing. 5¢.
- 1267 F. Utilization of flue-heated tobacco barns for sweet-potato storage. 5¢.

Circulars:

- 327 C. Influence of spacing and time of planting on the yield and size of the Porto Rico sweetpotato. 5¢.

Statistical Bulletins:

- *10 S. Statistics of potatoes and sweet potatoes: Year ended July 31, 1924, with comparable data for earlier years. 10¢.

Technical Bulletins:

- 335 T. Fertilizers for sweet potatoes based on investigations in North Carolina. 5¢.

Diseases: Sweetpotatoes**Farmers' Bulletins:**

- 1059 F. Sweet-potato diseases. 5¢.

Leaflets:

- 106 L. Prevent storage rots of sweet potatoes. 5¢.

Technical Bulletins:

- *99 T. A monographic study of sweet-potato diseases and their control. 40¢.

Marketing: Sweetpotatoes**Farmers' Bulletins:**

- 1267 F. Utilization of flue-heated tobacco barns for sweet-potato storage. 5¢.

Department Bulletins:

- *1206 D. Marketing southern-grown sweet potatoes. 10¢.

TOMATOES*(See also Vegetables: General)***Farmers' Bulletins:**

- 1233 F. Tomatoes for canning and manufacturing. 5¢.
- 1338 F. Tomatoes as a truck crop. 5¢.
- 1431 F. Greenhouse tomatoes. 5¢.

Circulars:

- 218 C. The Break O' Day tomato. 5¢.
- 243 C. The Pritchard tomato. 5¢.
- *388 C. The Glovel tomato. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Miscellaneous Publications:

- *160 MP. Description of types of principal American varieties of tomatoes. 50¢.

Diseases: Tomatoes

Circulars:

- *29 C. Bacterial canker of tomatoes. 5¢.
- 169 C. Tomato late-blight rot: A serious transit and market disease. 5¢.
- 282 C. Three bacterial spots of tomato fruit. 5¢.
- *371 C. Development of phoma rot of tomatoes in transit and in storage. 5¢.

Department Circulars:

- *219 DC. Phoma rot of tomatoes. 5¢.

Miscellaneous Publications:

- *13 MP. Yellows, a serious disease of tomatoes. 5¢.
- *121 MP. Market diseases of fruits and vegetables: Tomatoes, peppers, eggplants. 20¢.

Technical Bulletins:

- *189 T. Experiments on the control of tomato yellows. 10¢.
- 520 T. Temperature studies of some tomato pathogens. 5¢.

Posters:

- *11 colored posters, 7¼ by 12 inches, of diseases of tomatoes, eggplants, and peppers. 55¢ per set.

Insects and Other Pests: Tomatoes

Department Circulars:

- *282 DC. The Australian tomato weevil introduced in the South. (A preliminary account.) 5¢.

Marketing: Tomatoes

Farmers' Bulletins:

- 1291 F. Preparation of fresh tomatoes for market. 5¢.
- 1442 F. Storage of sweet potatoes. 5¢.
- 1578 F. Marketing late-crop potatoes. 5¢.

Circulars:

- *245 C. Spoilage of tomatoes in transit, as shown by inspection certificates, 1922 to 1930. 5¢.
- *291 C. Freezing of greenhouse-grown tomatoes in transit. 15¢.

Technical Bulletins:

- 268 T. Effect of various temperatures on the storage and ripening of tomatoes. 15¢.

Bureau of Agricultural Economics Service and Regulatory Announcements:

Apply direct to the Bureau of Agricultural Economics, U. S. Department of Agriculture, Washington, D. C., for the following:

- 141 United States standards for canned tomatoes.

OTHER VEGETABLES

(See also Vegetables: General)

Farmers' Bulletins:

- 232 F. Okra: Its culture and uses. 5¢.
- *1253 F. Seed peas for the canner. 5¢.
- *1255 F. The production of peas for canning. 5¢.
- 1269 F. Celery growing. 5¢.
- *1396 F. The dasheen: A southern root crop for home use and market. 5¢.
- 1418 F. Lettuce growing in greenhouses. 5¢.
- 1509 F. Bean growing in northern Idaho, eastern Washington, and eastern Oregon. 5¢.
- 1609 F. Lettuce growing. 5¢.
- 1634 F. Growing sweet corn for the cannery. 5¢.
- 1646 F. Asparagus culture. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Leaflets:

- 116 L. Growing the Jerusalem artichoke. 5¢.

Circulars:

- 268 C. Golden Cross Bantam sweet corn. 5¢.
399 C. Machine placement of fertilizers for snap beans in Florida. 5¢.

Department Circulars:

- *125 DC. Forcing and blanching dasheen shoots. 5¢.

Miscellaneous Publications:

- *16 MP. Save the beans. 5¢.
*170 MP. Description of types of principal American varieties of garden peas. \$1.00.

Technical Bulletins:

- *33 T. The Jerusalem artichoke as a crop plant. 5¢.
*312 T. Response of sweet corn to varying temperatures from time of planting to canning maturity. 5¢.
462 T. Composition of the developing asparagus shoot in relation to its use as a food product and as material for canning. 5¢.
*514 T. Studies on the culture and certain varieties of the Jerusalem artichoke. 10¢.

Posters:

- *11 colored posters, 7¼ by 12 inches, of diseases of tomatoes, eggplants, and peppers. 55¢ per set.

Diseases: Other Vegetables

Farmers' Bulletins:

- 1692 F. Bean diseases and their control. 5¢.
1735 F. Pea diseases and their control. 5¢.

Miscellaneous Publications:

- *121 MP. Market diseases of fruits and vegetables: Tomatoes, peppers, eggplants. 20¢.

Technical Bulletins:

- *181 T. Clubroot of crucifers. 5¢.
*186 T. The bacterial blight of beans caused by *Bacterium phaseoli*. 10¢.

Posters:

- *11 colored posters, 7¼ by 12 inches, of diseases of tomatoes, eggplants, and peppers. 55¢ per set.

Insects and Other Pests: Other Vegetables

Farmers' Bulletins:

- *668 F. The squash-vine borer. 5¢.
*837 F. The asparagus beetles and their control. 5¢.
*1193 F. The beet leaf-beetle and its control. 5¢.
1275 F. Weevils in beans and peas. 5¢.
1624 F. The Mexican bean beetle in the East and its control. 5¢.

Department Bulletins:

- *843 D. The bean ladybird. 10¢.
*892 D. The beet leaf-beetle. 15¢.
*966 D. The European horse-radish webworm. 5¢.
*1243 D. Studies of the Mexican bean beetle in the Southeast. 20¢.

Technical Bulletins:

- *206 T. Ecological studies of the beet leaf hopper. 30¢.
376 T. Habits, life history, and control of the Mexican bean beetle in New Mexico. 5¢.
*395 T. Subfreezing temperatures lethal to the European corn borer infesting green ears of sweet corn. 5¢.
*447 T. The pepper weevil. 5¢.
*463 T. Biological and ecological factors in the control of the celery leaf tier in Florida. 10¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Marketing: Other Vegetables

Farmers' Bulletins:

- 1594 F. Preparation of bunched beets, carrots, and turnips for market. 5¢.

Statistical Bulletins:

- 34 S. Corn futures: Volume of trading, open commitments and prices from January 3, 1921, to December 31, 1929. 35¢.

Unnumbered:

- Handbook of official standards for beans. 10¢.

Bureau of Agricultural Economics Service and Regulatory Announcements:

Apply direct to the Bureau of Agricultural Economics, U. S. Department of Agriculture, Washington, D. C., for the following:

- 138 United States standards for grades of canned corn—whole-grain style.
139 United States standards for grades of canned corn—cream style.
140 United States standards for canned peas.
142 United States standards for canned snap beans.

WEEDS AND NOXIOUS PLANTS

Farmers' Bulletins:

- 660 F. Weeds: How to control them. 5¢.
*687 F. Eradication of ferns from pasture lands in the eastern United States. 5¢.
945 F. Eradication of Bermuda grass. 5¢.
988 F. Larkspur or "poison weed." 5¢.
1054 F. The loco-weed disease. 5¢.
1166 F. Poison ivy and poison sumac and their eradication. 5¢.
1273 F. The stock-poisoning death camas. 5¢.
1537 F. Johnson grass as a weed. 5¢.
1544 F. Common barberry and black stem rust. 5¢.

Leaflets:

- 43 L. Wild garlic and its control. 5¢.
88 L. Poisoning of livestock by plants that produce hydrocyanic acid. 5¢.
95 L. How to control ragweed, the principal cause of autumn hay fever. 5¢.

Circulars:

- *229 C. Weedy abandoned lands and the weed hosts of the beet leaf hopper. 5¢.

Department Bulletins:

- *710 D. Stagger grass (*Chrosperma muscaetoxicum*) as a poisonous plant. 5¢.
*767 D. Oak-leaf poisoning of domestic animals. 10¢.
*800 D. The whorled milkweed (*Asclepias galioides*) as a poisonous plant. 15¢.
947 D. Western sneezeweed (*Helenium hoopesii*) as a poisonous plant. 10¢.
969 D. The Mexican whorled milkweed (*Asclepias mexicana*) as a poisonous plant. 5¢.
*1012 D. The death camas species, *Zygadenus paniculatus* and *Z. elegans*, as poisonous plants. 10¢.
*1212 D. The woolly-pod milkweed (*Asclepias eriocarpa*) as a poisonous plant. 5¢.
*1229 D. The stem nematode *Tylenchus dipsaci* on wild hosts in the Northwest. 5¢.
*1240 D. The meadow death camas (*Zygadenus venenosus*) as a poisonous plant. 5¢.
1245 D. Stock-poisoning plants of the range. 35¢.
*1274 D. Cockleburs (species of *xanthium*) as poisonous plants. 10¢.
*1316 D. Some effects of sodium arsenite when used to kill the common barberry. 10¢.
1376 D. Nuttall's death camas (*Zygadenus nuttallii*) as a poisonous plant. 5¢.
1391 D. Rayless goldenrod (*Aplopappus heterophyllus*) as a poisonous plant. 5¢.
*1451 D. Methods of eradicating the common barberry (*Berberis vulgaris* L.). 20¢.

Department Circulars:

- *82 DC. A new sheep-poisoning plant of the Southern States. 5¢.
*108 DC. Chicory: Control and eradication. 5¢.
*130 DC. The hawkweeds, or paintbrushes. 5¢.
*188 DC. Progress of barberry eradication. 10¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Department Circulars—Continued.

- *268 DC. Kill the common barberry with chemicals. 5¢.
 *269 DC. Barberry eradication prevents black rust in western Europe. 5¢.
 *272 DC. Woolly-pod milkweed: A dangerous stock-poisoning plant. 5¢.
 *279 DC. Greasewood as a poisonous plant. 5¢.
 *283 DC. Livestock poisoning by cocklebur. 5¢.
 *332 DC. Chemical eradication of the common barberry. 5¢.
 *356 DC. The common barberry and how to kill it. 5¢.

Miscellaneous Publications:

- 131 MP. A dangerous neighbor for wheat, oats, barley, and rye. (The common barberry.) 5¢.

Technical Bulletins:

- *29 T. Coyotillo (*Karwinskia humboldtiana*) as a poisonous plant. 10¢.
 *93 T. Four species of range plants not poisonous to livestock. 5¢.
 *113 T. Arrow grass (*Triglochin maritima*) as a stock-poisoning plant. 5¢.
 *114 T. Sleepy grass (*Stipa vaseyi*) as a stock-poisoning plant. 5¢.
 *156 T. Investigations in weed control by zinc sulphate and other chemicals at the Savenac Forest Nursery. 15¢.
 *202 T. Toxic effect of St. Johnswort (*Hypericum perforatum*) on cattle and sheep. 5¢.
 *219 T. Mountain-laurel (*Kalmia latifolia*) and sheep laurel (*Kalmia angustifolia*) as stock-poisoning plants. 10¢.
 *240 T. The chemical eradication of Ribes. 10¢.
 261 T. Longevity and germination of seeds of Ribes, particularly *R. rotundifolium*, under laboratory and natural conditions. 15¢.
 *300 T. Susceptibility and resistance of Berberis and related genera to *Puccinia graminis*. 10¢.
 *391 T. Alpine kalmia (*Kalmia microphylla*) as a stock-poisoning plant. 5¢.
 *472 T. The desert milkweed (*Asclepias subulata*) as a possible source of rubber. 5¢.

Yearbook Separates:

- *796 Y. The black stem rust and the barberry. 5¢.

INVENTORIES OF SEEDS AND PLANTS IMPORTED

*31 Apr.-June, 1912. 15¢.	*69 Oct. 1-Dec. 31, 1921. 10¢.
*32 July 1-Sept. 30, 1912. 10¢.	*70 Jan. 1-Mar. 31, 1922. 5¢.
*33 Oct.-Dec., 1912. 15¢.	*71 Apr. 1-June 30, 1922. 10¢.
*34 Jan.-Mar., 1913. 10¢.	*72 July 1-Sept. 30, 1922. 10¢.
*36 July-Sept., 1913. 15¢.	*74 Jan. 1-Mar. 31, 1923. 10¢.
*37 Oct.-Dec., 1913. 10¢.	*75 Apr. 1-June 30, 1923. 10¢.
*39 Apr.-June, 1914. 25¢.	*78 Jan. 1-Mar. 31, 1924. 5¢.
*40 July-Sept., 1914. 20¢.	*79 Apr. 1-June 30, 1924. 10¢.
*42 Jan.-Mar., 1915. 20¢.	*86 Jan. 1-Mar. 31, 1926. 10¢.
*43 Apr.-June, 1915. 15¢.	90 Jan. 1-Mar. 31, 1927. 10¢.
*44 July-Sept., 1915. 15¢.	91 Apr. 1-June 30, 1927. 10¢.
*45 Oct.-Dec., 1915. 15¢.	92 July 1-Sept. 30, 1927. 5¢.
*46 Jan.-Mar., 1916. 10¢.	93 Oct. 1-Dec. 31, 1927. 10¢.
*47 Apr.-June, 1916. 15¢.	94 Jan. 1-Mar. 31, 1928. 10¢.
*48 July-Sept., 1916. 10¢.	95 Apr. 1-June 30, 1928. 10¢.
*49 Oct.-Dec., 1916. 25¢.	96 July 1-Sept. 30, 1928. 5¢.
*50 Jan. 1-Mar. 31, 1917. 20¢.	97 Oct. 1-Dec. 31, 1928. 10¢.
*51 Apr. 1-June 30, 1917. 20¢.	98 Jan. 1-Mar. 31, 1929. 10¢.
*52 July 1-Sept. 30, 1917. 15¢.	99 Apr. 1-June 30, 1929. 10¢.
*53 Oct. 1-Dec. 31, 1917. 15¢.	100 July 1-Sept. 30, 1929. 10¢.
*54 Jan. 1-Mar. 31, 1917. 15¢.	101 Oct. 1-Dec. 31, 1929. 5¢.
*55 Apr. 1-June 30, 1918. 10¢.	102 Jan. 1-Mar. 31, 1930. 20¢.
*56 July 1-Sept. 30, 1918. 10¢.	103 Apr. 1-June 30, 1930. 10¢.
*57 Oct. 1-Dec. 31, 1918. 10¢.	104 July 1-Sept. 30, 1930. 5¢.
*58 Jan. 1-Mar. 31, 1919. 10¢.	105 Oct. 1-Dec. 31, 1930. 10¢.
*59 Apr. 1-June 30, 1919. 15¢.	106 Jan. 1-Mar. 31, 1931. 10¢.
*60 July 1-Oct. 31, 1919. 20¢.	107 Apr. 1-June 30, 1931. 5¢.
*61 Nov. 1-Dec. 31, 1919. 20¢.	108 July 1-Sept. 30, 1931. 5¢.
*62 Jan. 1-Mar. 31, 1919. 20¢.	109 Oct. 1-Dec. 31, 1931. 5¢.
*63 Apr. 1-May 31, 1919. 20¢.	110 Jan. 1-Mar. 31, 1932. 10¢.
*64 June 1-Sept. 30, 1920. 15¢.	112 July 1-Sept. 30, 1932. 5¢.
*65 Oct. 1-Dec. 31, 1920. 15¢.	113 Oct. 1-Dec. 31, 1932. 5¢.
*66 Jan. 1-Mar. 31, 1921. 15¢.	114 Jan. 1-Mar. 31, 1933. 5¢.
*67 Apr. 1-June 30, 1921. 15¢.	115 Apr. 1-June 30, 1933. 5¢.
*68 July 1-Sept. 30, 1921. 10¢.	116 July 1-Sept. 30, 1933. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

SOILS

(See also Plant Industries: Soil Building Crops and Soil Conserving Crops.)

SOILS (General)

Farmers' Bulletins:

- *446 F. The choice of crops for alkali land. 5¢.
- 921 F. The principles of the liming of soils. 5¢.
- 1629 F. Steam sterilization of soil for tobacco and other crops. 5¢.

Circulars:

- *55 C. Soil factors influencing crop production in the Arkansas Valley, Colo. 10¢.
- *56 C. Methods for determining the hydrogen-ion concentration of soils. 5¢.
- 95 C. Subsoil, an important factor in the growth of apple trees in the Ozarks. 10¢.
- *139 C. Method and procedure of soil analysis used in the Division of Soil Chemistry and Physics. 5¢.
- *167 C. Moss peat: Its uses and distribution in the United States. 5¢.
- 232 C. Measuring the salinity of irrigation waters and of soil solutions with the Wheatstone bridge. 5¢.
- *290 C. Grades of peat and muck for soil improvement. 5¢.
- 303 C. Soil profile and root penetration as indicators of apple production in the Lake Shore district of western New York. 5¢.

Department Bulletins:

- *159 D. Soils of the Sassafras series. 15¢.
- *355 D. Extension course in soils. 10¢.
- *447 D. Water penetration in the gumbo soils of the Belle Fourche reclamation project. 5¢.
- *572 D. The recovery of potash as a by-product in the cement industry. 5¢.
- *677 D. Soils of southern New Jersey and their uses. 40¢.
- *1005 D. Soils of eastern Virginia and their uses for truck crop production. 35¢.
- *1126 D. The effect of borax on the growth and yield of crops. 15¢.
- *1221 D. The capillary distribution of moisture in soil columns of small cross section. 5¢.
- *1226 D. The recovery of potash as a by-product in the blast-furnace industry. 5¢.
- *1310 D. Experiments with fallow in north-central Montana. 5¢.
- *1314 D. A bibliography relating to soil alkalies. 10¢.
- 1419 D. Factors and problems in the selection of peat lands for different uses. 15¢.

Department Circulars:

- *423 DC. The use of the electrolytic bridge for determining soluble salts. 5¢.

Miscellaneous Publications:

- *192 MP. A review of the patents and literature on the manufacture of potassium nitrate with notes on its occurrence and uses. 5¢.
- *229 MP. Development and significance of the great soil crops of the United States. 25¢.

Technical Bulletins:

- *20 T. A study of phylloxera infestation in California as related to types of soils. 25¢.
- *94 T. Soil reconnaissance of the Panama Canal Zone and contiguous territory. 20¢.
- *128 T. Alteration of muscovite and biotite in the soil. 10¢.
- 211 T. Some methods for detecting differences in soil organic matter. 5¢.
- 214 T. The physical and chemical characteristics of certain American peat profiles. 5¢.
- *225 T. Results of fertilizer experiments on Norfolk fine sandy loam and on Norfolk sandy loam. 5¢.
- *228 T. Character of the colloidal materials in the profiles of certain major soil groups. 5¢.
- 229 T. Variations of the colloidal material extracted from the soils of the Miami, Chester, and Cecil series. 5¢.
- 232 T. A laboratory study of the field percolation rates of soils. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Technical Bulletins—Continued.

- *247 T. Forest types in the Southwest as determined by climate and soil. 30¢.
- *264 T. Boron in irrigation waters. 20¢.
- 291 T. The effect of air drying on the hydrogen-ion concentration of the soils of the United States and Canada. 10¢.
- *315 T. Soil survey (reconnaissance) of St. Croix Island, Virgin Islands. 20¢.
- 316 T. Physical and chemical characteristics of the soils from the erosion experiment stations. 5¢.
- 317 T. A critical laboratory review of methods of determining organic matter and carbonates in soil. 5¢.
- 319 T. The fractionation, composition, and hypothetical constitution of certain colloids derived from the great soil groups. 5¢.
- *371 T. The effect of different colloidal soil materials on the efficiency of superphosphate. 5¢.
- 377 T. Character and behavior of organic soil colloids. 5¢.
- *382 T. The silt load of Texas streams. 10¢.
- *389 T. The decomposition of hydrolytic peat products including ammoniated peat. 5¢.
- *399 T. A study of claypan soils. 5¢.
- *430 T. The physical and chemical characteristics of the soils from the erosion experiment stations—second report. 10¢.
- *443 T. Application of steam in the sterilization of soils. 5¢.
- *461 T. Base exchange and related properties of the colloids of soils from the erosion experiment stations. 5¢.
- 469 T. A method of rural land classification. 5¢.
- 471 T. Chemical studies of infertile soils derived from rocks high in magnesium and generally high in chromium and nickel. 5¢.
- *482 T. Selenium occurrence in certain soils in the United States with a discussion of related topics. 5¢.
- *484 T. The composition and constitution of the colloids of certain of the great groups of soils. 5¢.
- *491 T. Soil moisture and irrigation investigations in eastern apple orchards. 5¢.
- *502 T. The chemical and physical properties of dry-land soils and of their colloids. 10¢.
- 532 T. The comparative moisture-absorbing and moisture-retaining capacities of peat and soil mixtures. 5¢.

Yearbook Separates:

- *717 Y. Importance of developing our natural resources of potash. 5¢.

Unnumbered:

- *Atlas of American Agriculture.
Part III. Soils of the United States. \$5.00.

FERTILIZERS**Farmers' Bulletins:**

- 921 F. The principles of the liming of soils. 5¢.

Leaflets:

- 70 L. Home mixing of fertilizers. 5¢.
- 71 L. Fertilizers for pecan soils. 5¢.

Circulars:

- 64 C. Cyanamid, its uses as a fertilizer material. 5¢.
- *125 C. Experiments in the use of fertilizers in growing forest planting material at the Savenac nursery. 10¢.
- *129 C. Survey of the fertilizer industry. 5¢.
- *185 C. New fertilizer materials. 5¢.
- 192 C. Progress report on mechanical application of fertilizers to cotton in South Carolina, 1930. 10¢.
- *264 C. Mechanical application of fertilizers to cotton in South Carolina, 1931. 5¢.
- 315 C. Changes in composition of American fertilizers, 1880-1932. 5¢.
- 319 C. Fertilizer studies with sugar beets in the Arkansas Valley area, Colo, 1921-28. 5¢.
- 399 C. Machine placement of fertilizers for snap beans in Florida. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Department Bulletins:

- *798 D. A survey of the fertilizer industry. 10¢.
- *1191 D. Potash from kelp: Early development and growth of the giant kelp, *Macrocystis pyrifera*. 5¢.
- *1280 D. The computation of fertilizer mixtures from concentrated materials. 5¢.
- 1413 D. Cocoa by-products and their utilization as fertilizer materials. 10¢.
- *1418 D. Fertilizer experiments with alfalfa conducted at the United States Yuma Field Station, Bard, Calif., 1919 to 1925. 5¢

Miscellaneous Publications:

- 126 MP. Fertilizers for cotton soils. 5¢.
- 136 MP. Conservation of fertilizer materials from minor sources. 5¢.
- 143 MP. American fertilizers. 5¢.
- *192 MP. A review of the patents and literature on the manufacture of potassium nitrate with notes on its occurrence and uses. 5¢.

Technical Bulletins:

- *12 T. Fertilizer tests with flue-cured tobacco. 15¢.
- *212 T. Mechanical analysis of finely divided natural phosphates. 5¢.
- *225 T. Results of fertilizer experiments on Norfolk fine sandy loam and on Norfolk sandy loam. 5¢.
- 335 T. Fertilizers for sweet potatoes based on investigations in North Carolina. 5¢.
- 348 T. Use of the exponential yield curve in fertilizer experiments. 10¢.
- *371 T. The effect of different colloidal soil materials on the efficiency of superphosphate. 5¢.
- *426 T. The relation of fertilizers to the control of cotton root rot in Texas. 10¢.
- 452 T. Experiments with nitrogen fertilizers on cotton soils. 5¢.
- *483 T. Effect of alfalfa and farm manure on yields of irrigated crops in the Great Plains. 10¢.
- *485 T. Effects of particle size on the properties and efficiency of fertilizers. 5¢.

SOIL EROSION

(See also Forestry; Forest Influences; Weather and Climate)

Farmers' Bulletins:

- 1234 F. Gullies: How to control and reclaim them. 5¢.
- 1669 F. Farm terracing. 5¢.
- 1697 F. Using soil-binding plants to reclaim gullies in the South. 5¢.
- 1737 F. Stop gullies: Save your farm. 5¢.
- 1758 F. Cover crops for soil conservation. 5¢.

Leaflets:

- 82 L. Controlling small gullies by bluegrass sod. 5¢.
- *85 L. Strip cropping to prevent erosion. 5¢.
- 114 L. Vine-mesquite for erosion control on southwestern ranges. 5¢.

Circulars:

- *33 C. Soil erosion a national menace. 25¢.
- *347 C. Effect of cover on surface run-off and erosion in the loessial uplands of Mississippi. 5¢.
- *402 C. Blue grama grass for erosion control and range reseeding in the Great Plains and a method of obtaining seed in large lots. 5¢.

Miscellaneous Publications:

- *165 MP. The barrier system for control of floods in mountain streams. 5¢.
- 186 MP. Reconnaissance erosion survey of the Brazos River watershed, Texas. 10¢.
- 196 MP. Floods and accelerated erosion in northern Utah. 5¢.
- *221 MP. Soil blowing and dust storms. 5¢.

Technical Bulletins:

- *94 T. Soil reconnaissance of the Panama Canal Zone and contiguous territory. 20¢.
- *184 T. Erosion and silting of dredged drainage ditches. 25¢.

For information in obtaining publications free and for sale, see p. 2 How to Order.

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Technical Bulletins—Continued.

- *220 T. A study of the influence of herbaceous plant cover on surface run-off and soil erosion in relation to grazing on the Wasatch Plateau in Utah. 20¢.
- 316 T. Physical and chemical characteristics of the soils from the erosion experiment stations. 5¢.
- *382 T. The silt load of Texas streams. 10¢.
- *430 T. The physical and chemical characteristics of the soils from the erosion experiment stations—second report. 10¢.
- *461 T. Base exchange and related properties of the colloids of soils from the erosion experiment stations. 5¢.

Unnumbered:

- *Little waters. Their use and relations to the land. 15¢.

SOIL SURVEYS**LIST OF AVAILABLE SOIL SURVEYS****Arranged Alphabetically by States and Counties**

The majority of the edition of each report is distributed by the United States Senators and Representatives from the areas surveyed; a limited number are available for distribution by the Bureau of Chemistry and Soils, United States Department of Agriculture. Editions are inadequate to meet the demand and therefore reports of not more than three separate areas and not to exceed one copy of each report may be sent free to one individual. The price at which these reports may be purchased is indicated, and if more than three reports are desired the request, together with the necessary sum, should be forwarded to the Superintendent of Documents, Government Printing Office.

Many counties not listed have been surveyed, but both the free and sale stocks are entirely exhausted. They may be consulted in any of the public libraries which keep a file of all soil surveys.

Beginning with the 1923 series, soil survey reports have been issued separately. Reports of the individual areas are sent to libraries as soon as they are available, and they should be filed, preserved, and ultimately bound to take the place of the bound volumes of the field operations which were previously supplied by the Department, and which were discontinued with the edition of 1922. The reports for each year are now consecutively numbered, the last report for a particular year bearing the conspicuous notice: "This number is the final and last soil survey for the year 193-."

ALABAMA

- Cherokee County. (See Fort Payne Area.)
- *Chilton County. 15¢.
- Coosa County. 20¢.
- Crenshaw County. 20¢.
- Dekalb County. (See Fort Payne Area).
- Fayette County. 25¢.
- *Fort Payne Area (parts of Cherokee & Dekalb Counties). 15¢.
- Franklin County. 20¢.
- *Geneva County. 25¢.
- Greene County. 20¢.
- *Houston County. 15¢.
- *Huntsville Area (parts of limestone and Madison Counties). 15¢.
- Limestone County. (See Huntsville Area.)
- Lowndes County. 15¢.
- Madison County. (See Huntsville Area.)
- *Marengo County. 25¢.
- Mobile County. 65¢.
- Monroe County. 15¢.
- Montgomery County. 25¢.
- Morgan County.
- Perry County. 30¢.
- Pickens County.
- *Randolph County. 15¢.
- St. Clair County. 25¢.
- Shelby County. 20¢.
- Walker County.
- Washington County.
- Wilcox County. 25¢.

For information in obtaining publications free and for sale, see p. 2. How to Order.

*For sale only.

ALASKA

Reconnaissance

Soils, agriculture, and other resources of the Kenai Peninsula region of Alaska. 25¢.

ARIZONA

- Benson Area (part of Cochise County). 15¢.
 *Buckeye-Beardsley Area (part of Maricopa County). 20¢.
 Cochise County. (See Benson and San Simon Areas.)
 Coconino County. (See Winslow Area.)
 Gila Bend Area (part of Maricopa County). 15¢.
 Graham County. (See Solomonsville Area.)
 Maricopa County. (See Buckeye-Beardsley, Gila Bend, Middle Gila Valley, Paradise-Verde, and Salt River Valley Areas.)
 Middle Gila Valley Area (parts of Maricopa and Pinal Counties). 25¢.
 Navajo County. (See Winslow Area.)
 Nogales Area (part of Santa Cruz County). 20¢.
 Paradise-Verde Area (part of Maricopa County). 20¢.
 Pinal County. (See Middle Gila Valley Area.)
 Salt River Valley Area (part of Maricopa County). 25¢.
 San Simon Area (part of Cochise County). 25¢.
 Santa Cruz County. (See Nogales Area.)
 Solomonsville Area (part of Graham County). 15¢.
 Tucson Area. 45¢.
 Winslow Area (parts of Coconino and Navajo Counties). 15¢.
 *Yuma-Wellton Area (parts of Yuma County, Arizona, and Imperial County, Calif.). 35¢.
 *Yuma County. (See Yuma Area, Ariz., and Yuma-Wellton Area, Ariz.-California.)

ARKANSAS

- Ashley County.
 Bradley County. 20¢.
 Craighead County.
 Drew County. 15¢.
 Hempstead County. 15¢.
 Howard County. 15¢.
 Jefferson County.
 Nevada County. 20¢.
 Perry County. 25¢.
 Pulaski County.

CALIFORNIA

- Alturas Area. 50¢.
 *Auburn Area (parts of Nevada and Placer Counties). 25¢.
 Big Valley Area (parts of Lassen and Modoc Counties).
 Bishop Area (parts of Inyo and Mono Counties). 25¢.
 Butte County. (See Chico and Oroville Areas.)
 Capistrano Area (parts of Orange and San Diego Counties). 30¢.
 Chico Area (part of Butte County). 15¢.
 Clear Lake Area (part of Lake County). 15¢.
 Coachella Valley Area (part of Riverside County). 20¢.
 Colusa County. (See Oroville Area.)
 Dixon Area (parts of Solano and Yolo Counties).
 El Cajon Area (part of San Diego County). 25¢.
 El Centro Area (part of Imperial County). 25¢.
 Eldorado County. (See Placerville Area.)
 Eureka Area (part of Humboldt County). 25¢.
 Glenn County. (See Oroville Area.)
 Grass Valley Area (part of Nevada County). 25¢.
 Healdsburg Area (part of Sonoma County).
 Hollister Area (part of San Benito County). 20¢.
 Honey Lake Area (part of Lassen County).
 Humboldt County. (See Eureka Area.)
 Imperial County. (See El Centro Area, Calif., and Yuma-Wellton Area, Ariz.-Calif.)
 Inyo County. (See Bishop Area.)
 Kern County. (See Lancaster and Paso Robles Areas.)
 King City Area (part of Monterey County). 35¢.
 Lake County. (See Clear Lake Area.)
 Lancaster Area (parts of Kern and Los Angeles Counties). 25¢.
 Lassen County. (See Big Valley and Honey Lake Areas.)
 Los Angeles County. (See Lancaster, Pasadena, San Fernando Valley, and Ventura Areas.)
 Mendocino County. (See Ukiah and Willits Areas.)
 Modoc County. (See Big Valley Area.)

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

- Mono County. (See Bishop Area.)
 Monterey County. (See King City and Salinas Areas.)
 Nevada County. (See Auburn and Grass Valley Areas.)
 Oceanside Area (part of San Diego County). 25¢.
 Orange County. (See Capistrano and Santa Ana Areas.)
 Oroville Area (parts of Butte, Colusa, and Glenn Counties). 25¢.
 Pasadena Area (parts of Los Angeles and San Bernardino Counties).
 Paso Robles Area (parts of Kern and San Luis Obispo Counties). 25¢.
 Placer County. (See Auburn Area.)
 Placerville Area (part of Eldorado County). 15¢.
 Riverside Area (parts of Riverside and San Bernardino Counties).
 Riverside County. (See Coachella Valley and Riverside Areas.)
 Sacramento County. (See Suisun Area.)
 Salinas Area (parts of Monterey and San Benito Counties). 35¢.
 San Benito County. (See Hollister and Salinas Areas.)
 San Bernardino County. (See Pasadena, Riverside, and Victorville Areas.)
 San Diego County. (See Capistrano, El Cajon, and Oceanside Areas.)
 San Fernando Valley Area (part of Los Angeles County). 15¢.
 San Luis Obispo Area (parts of San Luis Obispo and Santa Barbara Counties). 35¢.
 San Luis Obispo County. (See Paso Robles, San Luis Obispo, and Santa Maria Areas.)
 Santa Ana Area (part of Orange County).
 Santa Barbara County. (See San Luis Obispo, Santa Maria, and Santa Ynez Areas.)
 Santa Maria Area (parts of San Luis Obispo and Santa Barbara Counties). 15¢.
 Santa Ynez Area (part of Santa Barbara County). 20¢.
 Shasta Valley Area (part of Siskiyou County). 25¢.
 Siskiyou County. (See Shasta Valley Area.)
 Solano County. (See Dixon and Suisun Areas.)
 Sonoma County. (See Healdsburg Area.)
 Suisun Area (parts of Sacramento and Solano Counties). 40¢.
 Ukiah Area (part of Mendocino County).
 Ventura Area (parts of Los Angeles and Ventura Counties).
 Ventura County. (See Ventura Area.)
 Victorville Area (part of San Bernardino County). 15¢.
 Willits Area (part of Mendocino County). 15¢.
 Yolo County. (See Dixon Area.)
 *Yuma-Welton Area, Ariz.-Calif. (parts of Yuma County, Ariz., and Imperial County, Calif.) 35¢.

Reconnaissance

- *Central-Southern California (parts of Los Angeles, Orange, Riverside, and San Bernardino Counties). 75¢.

COLORADO

- Adams County. (See Brighton Area.)
 Arkansas Valley Area (parts of Bent, Crowley, Fremont, Otero, Prowers, and Pueblo Counties). 50¢.
 Bent County. (See Arkansas Valley Area.)
 Boulder County. (See Brighton and Longmont Areas.)
 Brighton Area (parts of Adams, Boulder, and Jefferson Counties). 20¢.
 Conejos County. (See San Luis Valley.)
 Costilla County. (See San Luis Valley.)
 Crowley County. (See Arkansas Valley Area.)
 Fort Collins Area (parts of Larimer and Weld Counties). 20¢.
 Fremont County. (See Arkansas Valley Area.)
 Jefferson County. (See Brighton Area.)
 Larimer County. (See Fort Collins Area.)
 Longmont Area (parts of Boulder and Weld Counties). 40¢.
 Otero County. (See Arkansas Valley Area.)
 Prowers County. (See Arkansas Valley Area.)
 Pueblo County. (See Arkansas Valley Area.)
 Rio Grande County. (See San Luis Valley.)
 Saguache County. (See San Luis Valley.)
 San Luis Valley (parts of Conejos, Costilla, Rio Grande, and Saguache Counties).
 Weld County. (See Fort Collins and Longmont Areas.)

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

LIST OF AVAILABLE PUBLICATIONS 161

CONNECTICUT

Connecticut Valley (parts of Hartford and Tolland Counties, Conn. and Franklin, Hampden, and Hampshire Counties, Mass.).
Hartford County. (See Connecticut Valley.)
Tolland County. (See Connecticut Valley.)

DELAWARE

Dover Area (part of Kent County). 15¢.

FLORIDA

*Duval County. 25¢.

GEORGIA

*Bainbridge Area (part of Decatur County). 15¢.
*Bartow County. 25¢.
Ben Hill County. 15¢.
*Bibb County. 20¢.
*Brooks County. 15¢.
*Burke County. 15¢.
Butts and Henry Counties. 15¢.
Calhoun County. 15¢.
Candler County. (See Tattnall County.)
*Carroll County. 25¢.
Chattahoochee County. 15¢.
Chattooga County.
Clarke County. 10¢.
Clay County.
*Cobb County. 15¢.
Cook County. 10¢.
Covington Area (parts of Jasper, Morgan, Newton, Rockdale, and Walton Counties).
*Cowetta and Fayette Counties. 15¢.
Decatur County. (See Bainbridge Area).
Dooly County. 20¢.
*Early County. 25¢.
Elbert County. 15¢.
Evans County. (See Tattnall County).
Fannin County. 15¢.
Fayette County. (See Cowetta and Fayette Counties.)
Floyd County. 25¢.
Fort Valley Area (parts of Houston and Macon Counties).
Grady County.
Greene County. (See Oconee, Morgan, Greene, and Putnam Counties.)
Hart County. 25¢.
Henry County. (See Butts and Henry Counties.)
Houston County. (See Fort Valley Area.)
Jasper County. (See also Covington Area.) 15¢.
Jefferson County. 30¢.
Jenkins County. 15¢.
Lamar County. 15¢.
Laurens County.
Lee County. 15¢.
Lowndes County. 25¢.
McIntosh County.
Macon County. (See Fort Valley Area.)
Madison County. 15¢.
Meriwether County. 15¢.
Miller County.
Mitchell County. 15¢.
Monroe County. 15¢.
Morgan County. (See Covington Area and Oconee, Morgan, Greene, and Putnam Counties.)
Muscogee County. 15¢.
Newton County. (See Covington Area.)
*Oconee, Morgan, Greene, and Putnam Counties. 25¢.
Pierce County. 25¢.
Pulaski County. 15¢.
Putnam County. (See Oconee, Morgan, Greene, and Putnam Counties.)
Quitman County. 15¢.
Rabun County. 15¢.
Randolph County. 20¢.
Richmond County. 15¢.

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*For sale only.

- Rockdale County. (See also Covington Area.) 15¢.
 Screven County. 20¢.
 *Spalding County. 15¢.
 *Talbot County. 15¢.
 *Tattnall County (includes also part of Candler and Evans Counties). 15¢.
 *Terrell County. 15¢.
 *Turner County. 15¢.
 Walton County. (See Covington Area.)
 Washington County.
 Wayne County. 25¢.
 *Wilkes County. 15¢.
 Worth County. 30¢.

Reconnaissance

Tattnall County. (No map.)

IDAHO

- Ada County. (See Boise Area.)
 Bannock County. (See Portneuf and Soda Springs-Bancroft Areas.)
 Bear Lake County. (See Bear Lake Valley Area.)
 Bear Lake Valley Area (part of Bear Lake County). 20¢.
 Benewah County. 45¢.
 Bingham County. (See Blackfoot Area.)
 Blackfoot Area (parts of Bingham and Fremont Counties). 15¢.
 Blaine County. (See Minidoka Area.)
 *Boise Area (parts of Ada and Canyon Counties). 15¢.
 Canyon County. (See Boise Area.)
 Caribou County. (See Soda Springs-Bancroft Area.)
 Cassia County. (See Minidoka Area.)
 Elmore County. (See Gooding Area.)
 Fremont County. (See Blackfoot Area.)
 *Gooding Area (parts of Elmore and Gooding Counties). 30¢.
 Gooding County. (See Gooding Area.)
 Jerome Area (part of Jerome County). 15¢.
 Jerome County. (See Jerome and Minidoka Areas.)
 Kootenai County. 15¢.
 Latah County.
 Lewis County. (See Nez Perce and Lewis Counties.)
 Lincoln County. (See Minidoka Area.)
 Minidoka Area (parts of Blaine, Cassia, Jerome, Lincoln, and Minidoka Counties).
 Minidoka County. (See Minidoka Area.)
 Nez Perce and Lewis Counties. 25¢.
 Portneuf Area (part of Bannock County). 25¢.
 Soda Springs-Bancroft Area (parts of Bannock and Caribou Counties). 20¢.
 Twin Falls Area (part of Twin Falls County). 25¢.
 Twin Falls County. (See Twin Falls Area.)

ILLINOIS

- Jo Daviess County. (See Dubuque Area, Iowa.)
 Johnson County. 15¢.
 *Knox County. 15¢.
 *Sangamon County. 15¢.
 *St. Clair County. 15¢.
 Tazewell County.
 *Winnebago County. 15¢.

INDIANA

- Adams County. 15¢.
 Benton County.
 Blackford County. 15¢.
 Boone County.
 *Boonville Area (parts of Spencer and Warrick Counties). 15¢.
 Clay County. 15¢.
 Decatur County.
 Delaware County.
 Gibson County. 20¢.
 Hancock County. 20¢.
 Hendricks County.
 Kosciusko County. 25¢.
 Lake County. 25¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Lawrence County. 25¢.
 Marshall County.
 Miami County. 15¢.
 Monroe County. 20¢.
 Montgomery County.
 Ohio and Switzerland Counties. 30¢.
 Porter County. 15¢.
 Putnam County. 20¢.
 Randolph County. 30¢.
 *Scott County. 15¢.
 Spencer County. (See Boonville Area.)
 *Starke County. 15¢.
 Switzerland County. (See Ohio and Switzerland Counties.)
 Tipton County.
 Vermillion County. 20¢.
 Warrick County. (See Boonville Area.)
 Wayne County. 20¢.

IOWA

Adair County. 15¢.
 Benton County. 15¢.
 Blackhawk County. 15¢.
 Boone County. 15¢.
 Buchanan County. 15¢.
 Buena Vista County. 15¢.
 Butler County. 20¢.
 Calhoun County. 20¢.
 Carroll County. 15¢.
 Cedar County. 15¢.
 Cherokee County. 20¢.
 Chickasaw County. 15¢.
 Clarke County. 15¢.
 Clay County. 15¢.
 Clayton County. 15¢.
 Clinton County.
 Crawford County. 20¢.
 Dallas County. 15¢.
 Delaware County. 15¢.
 Des Moines County. 20¢.
 Dickinson County. 15¢.
 *Dubuque Area (parts of Dubuque, Jackson, and Jones Counties,
 Iowa, and Jo Daviess County, Ill.). 15¢.
 Dubuque County. (See also Dubuque Area.) 25¢.
 Emmet County. 15¢.
 Fayette County. 15¢.
 *Floyd County. 20¢.
 Fremont County. 15¢.
 Greene County. 15¢.
 Grundy County. 20¢.
 Guthrie County. 35¢.
 Hamilton County. 15¢.
 Hancock County. 20¢.
 Hardin County. 15¢.
 Harrison County. 20¢.
 Henry County. 15¢.
 Howard County. 15¢.
 Jackson County. (See Dubuque Area.)
 *Jasper County. 15¢.
 *Jefferson County. 20¢.
 *Johnson County. 15¢.
 Jones County. (See also Dubuque Area.) 20¢.
 Kossuth County. 25¢.
 Linn County. 15¢.
 Louisa County. 15¢.
 Lyon County. 20¢.
 Madison County. 15¢.
 Mahaska County. 15¢.
 Marshall County. 15¢.
 Mills County. 15¢.
 Mitchell County. 15¢.
 Monroe County. 25¢.
 Montgomery County. 15¢.
 *Muscatine County. 15¢.
 O'Brien County. 15¢.
 Page County. 15¢.
 Palo Alto County. 15¢.
 *Plymouth County. 15¢.

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 How to Order.

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164 MISCELLANEOUS PUBLICATION NO. 60

- Pocahontas County. 20¢.
- Polk County. 20¢.
- Poweshiek County. 20¢.
- *Ringgold County. 15¢.
- Sac County. 20¢.
- Scott County.
- *Story County. 15¢.
- *Tama County. 15¢.
- Union County. 15¢.
- *Van Buren County. 15¢.
- Wapello County. 15¢.
- Warren County. 15¢.
- Washington County. 30¢.
- Wayne County. 15¢.
- Webster County.
- Winnebago County. 15¢.
- Winneshiek County. 20¢.
- Woodbury County. 25¢.
- Worth County. 20¢.
- Wright County. 15¢.

KANSAS

- *Allen County. 15¢.
- Bourbon County. 30¢.
- *Brown County. 15¢.
- Cherokee County. (See Parsons Area).
- Clay County. 15¢.
- Crawford County. (See also Parsons Area). 10¢.
- *Doniphan County. 15¢.
- Finney County. (See Garden City Area.)
- *Garden City Area (parts of Finney and Gray Counties). 15¢.
- Gray County. (See Garden City Area.)
- *Jewell County. 15¢.
- Johnson County. 15¢.
- Labette County. (See Parsons Area.)
- Leavenworth County. 15¢.
- Marion County. 35¢.
- Neosho County. 20¢.
- *Parsons Area (parts of Cherokee, Crawford, and Labette Counties). 15¢.
- *Russell Area (part of Russell County). 15¢.
- Russell County. (See Russell Area.)
- Shawnee County.
- *Wilson County. 15¢.
- Woodson County. 30¢.

KENTUCKY

- Fayette County. 25¢.
- Garrard County. 15¢.
- *Jessamine County. 15¢.
- Logan County. 15¢.
- *McCracken County. 15¢.
- *Mason County. 15¢.
- Mercer County. 25¢.
- Muhlenberg County. 25¢.
- *Rockcastle County. 15¢.
- *Scott County. 15¢.
- Shelby County. 15¢.
- *Union County. 15¢.

LOUISIANA

- Beauregard Parish.
- LaSalle Parish. 25¢.
- Livingston Parish. 30¢.
- Natchitoches Parish. 35¢.
- Sabine Parish.
- St. Martin Parish. 15¢.
- *Webster Parish. 15¢.

MAINE

- Aroostook Area (part of Aroostook County).
- Aroostook County. (See Aroostook Area.)
- *Orono Area (part of Penobscot County). 15¢.
- Penobscot County. (See Orono Area.)

MARYLAND

- Allegany County. 25¢.
- Anne Arundel County. 20¢.

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How to Order.

*For sale only.

LIST OF AVAILABLE PUBLICATIONS 165

Calvert County. 20¢.
 Caroline County. 25¢.
 Carroll County. 15¢.
 Cecil County. 20¢.
 Charles County. 25¢.
 *Frederick County. 25¢.
 Garrett County. 15¢.
 Harford County. 15¢.
 Kent County. 35¢.
 Queen Annes County. 30¢.
 Somerset County.
 St. Marys County. 20¢.
 Talbot County.
 Washington County. 15¢.
 Wicomico County. 20¢.
 Worcester County. 20¢.

MASSACHUSETTS

Barnstable County. (See Norfolk, Bristol, and Barnstable Counties.)
 Berkshire County. 30¢.
 Bristol County. (See Norfolk, Bristol, and Barnstable Counties.)
 Connecticut Valley (parts of Franklin, Hampden, and Hampshire Counties, Mass., and Hartford and Tolland Counties, Conn.).
 Dukes and Nantucket Counties. 25¢.
 Essex County. 30¢.
 Franklin County. (See also Connecticut Valley.) 35¢.
 Hampden County. (See Hampden and Hampshire Counties and Connecticut Valley.)
 Hampden and Hampshire Counties. (See also Connecticut Valley.) 50¢.
 Hampshire County. (See Connecticut Valley and Hampden and Hampshire Counties.)
 Middlesex County. 25¢.
 Nantucket County. (See Dukes and Nantucket Counties.)
 Norfolk, Bristol, and Barnstable Counties.
 Worcester County. 25¢.

MICHIGAN

Alger County. (See also Munising Area.) 40¢.
 *Alma Area (part of Gratiot County). 15¢.
 Alpena County. 20¢.
 Antrim County. 20¢.
 Barry County. 15¢.
 Bay County. 40¢.
 Berrien County.
 Branch County. 40¢.
 *Calhoun County. 15¢.
 Chippewa County. 50¢.
 Crawford County. 20¢.
 *Eaton County. 30¢.
 Genesee County.
 Gratiot County. (See Alma Area.)
 Hillsdale County. 15¢.
 Isabella County. 15¢.
 Jackson County. 15¢.
 Kalamazoo County. 20¢.
 Kalkaska County. 20¢.
 Kent County. 25¢.
 Livingston County. 15¢.
 Luce County. 30¢.
 Macomb County. 15¢.
 Manistee County. 15¢.
 Mecosta County. 10¢.
 Menominee County. 30¢.
 Monroe County. (See Toledo Area, Ohio.)
 Montmorency County. 35¢.
 *Munising Area (part of Alger County). 15¢.
 Muskegon County. 15¢.
 Oakland County. (See Oxford and Pontiac Areas.)
 Ogemaw County. 20¢.
 Oscoda County. 30¢.
 Ottawa County. 20¢.
 *Oxford Area (part of Oakland County). 15¢.
 Roscommon County. 20¢.

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*For sale only.

166 MISCELLANEOUS PUBLICATION NO. 60

Shiawassee County. (See Owosso Area.)
 St. Clair County. 35¢.
 St. Joseph County. 15¢.
 Tuscola County. 15¢.
 Van Buren County. 20¢.
 Washtenaw County. 35¢.

Reconnaissance

Ontonagon County. 15¢.

MINNESOTA

Anoka County. 15¢.
 Hennepin County. 30¢.
 Houston County. 35¢.
 Hubbard County. 30¢.
 *Jackson County. 20¢.
 Lac Qui Parle County. 20¢.
 Lyon County. (See Marshall Area.)
 *Marshall Area (part of Lyon County). 15¢.
 Mille Lacs County. 25¢.
 Olmsted County. 25¢.
 Pennington County.
 Stevens County. 15¢.
 Wadena County. 15¢.

Reconnaissance

Lake of the Woods County. 20¢.

MISSISSIPPI

Alcorn County. 20¢.
 *Amite County. 15¢.
 *Choctaw County. 15¢.
 *Claiborne County. 20¢.
 Clarke County.
 Greene County. 40¢.
 Grenada County.
 Hinds County. 25¢.
 *Jackson County. 20¢.
 Jefferson Davis County.
 *Lee County. 15¢.
 *Pike County. 15¢.
 Rankin County. 20¢.
 Smith County. 15¢.

MISSOURI

Andrew County. 20¢.
 Barry County.
 Barton County.
 Caldwell County. 15¢.
 Callaway County. 15¢.
 *Carroll County. 15¢.
 Cass County. 15¢.
 Chariton County. 20¢.
 Cole County. 10¢.
 Grundy County.
 Knox County. 15¢.
 Laclede County.
 Lafayette County. 25¢.
 Lawrence County. 20¢.
 Lincoln County. 25¢.
 Mississippi County.
 Nodaway County. 15¢.
 Polk County. 20¢.
 Ray County. 20¢.
 Reynolds County. 20¢.
 *Scotland County. 15¢.
 *Shelby County. 15¢.
 St. Francois County. 25¢.
 *Texas County. 15¢.

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MONTANA

Blaine County. (See Milk River Area.)
 Gallatin Valley Area. 40¢.
 Hill County. (See Milk River Area.)
 Lake County. (See Lower Flathead Valley Area.)
 Lower Flathead Valley Area (parts of Lake, Missoula, and Sanders Counties). 35¢.
 Milk River Area (parts of Blaine, Hill, Phillips, and Valley Counties). 60¢.
 Missoula County. (See Lower Flathead Valley Area.)
 Phillips County. (See Milk River Area.)
 Sanders County. (See Lower Flathead Valley Area.)
 Valley County. (See Milk River Area.)

Reconnaissance

Northern Plains of Montana. (Blaine, Chouteau, Daniels, Hill, Liberty, Phillips, Roosevelt, Sheridan, Toole, and Valley Counties, and parts of Glacier, Pondera, and Teton Counties.) 30¢.

NEBRASKA

Adams County. 15¢.
 Antelope County. 25¢.
 Banner County.
 Boone County.
 Buffalo County. (See also Grand Island and Kearney Areas.) 20¢.
 Burt County. 20¢.
 Butler County. 20¢.
 Cedar County. 20¢.
 Chase County. 15¢.
 *Cheyenne County. 15¢.
 Clay County. 15¢.
 *Colfax County. 15¢.
 Cuming County. 20¢.
 Custer County. 45¢.
 Dakota County.
 Dawson County. (See also Kearney Area.) 20¢.
 Deuel County. 15¢.
 Dixon County. 15¢.
 *Dodge County. 15¢.
 Dundy County. 25¢.
 Fillmore County. 15¢.
 Franklin County. 15¢.
 Furnas County. 25¢.
 Gage County. 15¢.
 Garden County. 35¢.
 Gosper County. (See Kearney Area.)
 *Hall County. (See also Grand Island Area.) 15¢.
 Hamilton County. (See also Grand Island Area.) 15¢.
 Harlan County. 25¢.
 Howard County. 25¢.
 Jefferson County. 20¢.
 Johnson County. 15¢.
 *Kearney County. (See also Kearney Area.) 15¢.
 *Keith County. 20¢.
 *Kimball County. 15¢.
 Knox County. 30¢.
 *Lincoln County. (See also North Platte Area.) 50¢.
 *Madison County. (See also Stanton Area.) 15¢.
 Merrick County. (See also Grand Island Area.) 25¢.
 Morrill County. 25¢.
 Nance County. 20¢.
 Nuckolls County. 20¢.
 Pawnee County. 15¢.
 Perkins County. 25¢.
 Phelps County. (See also Kearney Area.) 15¢.
 Pierce County. (See also Stanton Area.) 20¢.
 Platte County. 20¢.
 *Polk County. 15¢.
 Redwillow County. 15¢.
 Saline County. 10¢.
 Scotts Bluff County. (See Fort Laramie Area, Wyo.)
 Sheridan County. 40¢.
 Sherman County. 25¢.

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*For sale only.

- Sioux County. 25¢.
 *Stanton Area (parts of Madison, Pierce, Stanton, and Wayne Counties). 15¢.
 Stanton County. (See also Stanton Area.) 20¢.
 Thayer County. 15¢.
 Valley County. 25¢.
 Wayne County. (See also Stanton Area.) 15¢.
 Webster County. 25¢.
 York County. 20¢.

NEVADA

- Churchill County. (See Fallon Area.)
 Clark County. (See Las Vegas and Moapa Valley Areas.)
 *Fallon Area (parts of Churchill and Lyon Counties). 25¢.
 Las Vegas Area (part of Clark County). 15¢.
 Lyon County. (See Fallon Area.)
 Moapa Valley Area (part of Clark County). 20¢.

NEW JERSEY

- Atlantic County. (See Camden, Chatsworth, and Millville Areas.)
 Bergen Area (parts of Bergen, Essex, Hudson, Middlesex, Morris, Passaic, and Union Counties). 20¢.
 Bergen County. (See Bergen Area.)
 Bernardsville Area (parts of Hunterdon, Middlesex, Morris, Somerset, Sussex, and Union Counties). 25¢.
 Burlington County. (See Camden, Chatsworth, and Trenton Areas.)
 Camden Area (parts of Atlantic, Burlington, Camden, Cumberland, Gloucester, and Salem Counties).
 Camden County. (See Camden and Chatsworth Areas.)
 Cape May County. (See Millville Area.)
 Cumberland County. (See Camden, Millville, and Salem Areas.)
 Essex County. (See Bergen Area.)
 Freehold Area (parts of Middlesex and Monmouth Counties). 20¢.
 Gloucester County. (See Camden, Millville, and Salem Areas.)
 Hudson County. (See Bergen Area.)
 Hunterdon County. (See Belvidere and Bernardsville Areas.)
 Mercer County. (See Belvidere and Trenton Areas.)
 Middlesex County. (See Bergen, Bernardsville, Freehold, and Trenton Areas.)
 Millville Area. (Cape May County, and parts of Atlantic, Cumberland, Gloucester, and Salem Counties.)
 Monmouth County. (See Chatsworth, Freehold, and Trenton Areas.)
 Morris County. (See Belvidere, Bergen, and Bernardsville Areas.)
 Ocean County. (See Chatsworth and Trenton Areas.)
 Passaic County. (See Bergen Area.)
 Salem Area (parts of Cumberland, Gloucester, and Salem Counties). 25¢.
 Salem County. (See Camden, Millville, and Salem Areas.)
 Somerset County. (See Belvidere, Bernardsville, and Trenton Areas.)
 Sussex County. (See Belvidere and Bernardsville Areas.)
 Union County. (See Bergen and Bernardsville Areas.)
 Warren County. (See Belvidere Area.)

NEW MEXICO

- De Baca County. (See Fort Sumner Area.)
 Deming Area (part of Luna County). 10¢.
 Dona Ana County. (See Rincon Area.)
 Fort Sumner Area (part of De Baca County). 15¢.
 Lea County. (See Lovington Area.)
 Lovington Area (part of Lea County). 50¢.
 Luna County. (See Deming Area.)
 *Rincon Area (parts of Dona Ana and Sierra Counties). 35¢.
 Rio Puerco Area. (See Socorro and Rio Puerco Areas.)
 Sierra County. (See Rincon Area.)
 Socorro and Rio Puerco Areas (part of Socorro County). 15¢.
 Socorro County. (See Socorro and Rio Puerco Areas.)

NEW YORK

- *Bigflats Area (parts of Chemung and Steuben Counties). 15¢.
 Cayuga County. 25¢.
 Chemung County. (See also Bigflats Area.) 30¢.

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- Chenango County. 25¢.
 *Clinton County. 15¢.
 *Columbia County. 25¢.
 Delaware County. 40¢.
 Erie County. 30¢.
 Genesee County. 25¢.
 Herkimer County Area (part of Herkimer County). 25¢.
 Nassau County. (See Suffolk and Nassau Counties.)
 Oswego County. 15¢.
 Putnam County. (See White Plains Area.)
 Rockland County. (See White Plains Area.)
 *St. Lawrence County. 50¢.
 Saratoga County. 15¢.
 Schoharie County.
 Steuben County. (See also Bigflats Area.) 60¢.
 Suffolk and Nassau Counties.
 *Washington County. 25¢.
 Wayne County. 25¢.
 Westchester County. (See White Plains Area.)
 *Westfield Area (part of Chautauqua County). 15¢.
 *White Plains Area (Putnam, Rockland, and Westchester Counties). 25¢.
 *Yates County. 15¢.

NORTH CAROLINA

- Alleghany County.
 Anson County. 15¢.
 *Beaufort County. 15¢.
 *Bertie County. 20¢.
 Buncombe County. 25¢.
 Burke County. 15¢.
 Caldwell County. 15¢.
 Camden and Currituck Counties. 20¢.
 Cherokee County. 15¢.
 Cleveland County. 15¢.
 Craven County. (See also Raleigh to Newbern Area.) 50¢.
 *Cumberland County. 25¢.
 Currituck County. (See Camden and Currituck Counties.)
 *Davie County. 15¢.
 Durham County. 15¢.
 Franklin County. 30¢.
 Gates County. 20¢.
 Greene County. (See also Raleigh to Newbern Areas.) 15¢.
 *Guilford County. 15¢.
 Halifax County. 15¢.
 Haywood County. 20¢.
 Hertford County.
 *Hoke County. 20¢.
 Johnston County. (See Raleigh to Newbern Area.)
 Jones County. (See Raleigh to Newbern Area.)
 Lee County. 30¢.
 Lenoir County. (See also Raleigh to Newbern Area.) 15¢.
 *Lincoln County. 15¢.
 Macon County. 20¢.
 Madison County. (See Greenville Area, Tenn.).
 *Martin County. 20¢.
 Montgomery County. 20¢.
 Moore County. 15¢.
 Nash County. 15¢.
 Northampton County. 20¢.
 Onslow County. 25¢.
 Orange County. 25¢.
 Pasquotank County. (See Perquimans and Pasquotank Counties.)
 Perquimans and Pasquotank Counties.
 Person County. 15¢.
 Polk County. 15¢.
 *Raleigh to Newbern Area (parts of Craven, Greene, Johnston, Jones, Lenoir, Wake, and Wayne Counties). 15¢.
 Rockingham County. 20¢.
 *Rutherford County. 20¢.
 Sampson County. 20¢.
 Stanly County. 15¢.
 Tyrrell County. 15¢.
 Vance County. 15¢.
 Wake County. (See Raleigh to Newbern Area.)
 Washington County. 25¢.
 Watauga County. 10¢.
 *Wayne County. (See Raleigh to Newbern Area.)

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170 MISCELLANEOUS PUBLICATIONS NO. 60

Wilkes County. 25¢.
Wilson County. 20¢.
Yadkin County. 15¢.

NORTH DAKOTA

Adams County. (See Morton Area.)
Cando Area (part of Towner County).
*Carrington Area (parts of Foster and Griggs Counties). 15¢.
Cass County. (See also Fargo Area.) 35¢.
Fargo Area (part of Cass County). 15¢.
Foster County. (See Carrington Area.)
*Grand Forks Area (part of Grand Forks County). 15¢.
Grand Forks County. (See Grand Forks Area.)
Griggs County. (See Carrington Area.)
Hettinger County. (See Morton Area.)
McHenry County. 25¢.
*Morton Area (parts of Adams, Hettinger, and Morton Counties). 15¢.
Morton County. (See Morton Area.)
Sargent County.
Towner County. (See Cando Area.)
Traill County. 15¢.

OHIO

*Ashtabula Area (part of Ashtabula County). 15¢.
Ashtabula County. (See Ashtabula Area.)
Belmont County. 20¢.
Brown County. 35¢.
Butler County.
*Clermont County. 25¢.
*Coshocton County. 15¢.
Delaware County. (See Westerville Area.)
Franklin County. (See Westerville Area.)
Fulton County. 20¢.
*Lake County. 25¢.
Licking County. (See Westerville Area.)
Lucas County. (See Toledo Area.)
Madison County. (See Westerville Area.)
Mahoning County. 15¢.
Marion County. 15¢.
*Meigs County. 15¢.
Miami County. 15¢.
Montgomery County.
Muskingum County. 25¢.
Ottawa County. (See also Toledo Area.) 40¢.
Putnam County. 30¢.
Sandusky County. 25¢.
Stark County. 15¢.
*Toledo Area (parts of Lucas, Ottawa, and Wood Counties, Ohio, and Monroe County, Mich.). 15¢.
Union County. (See Westerville Area.)
Washington County. 15¢.
*Westerville Area (parts of Delaware, Franklin, Licking, Madison, and Union Counties). 15¢.
Wood County. (See Toledo Area.)

OKLAHOMA

Canadian County. 15¢.
Craig County. 35¢.
Grant County. 30¢.
Kiowa County. 35¢.
Le Flore County. 30¢.
Payne County. 15¢.
Texas County. 25¢.
Tillman County. 35¢.

OREGON

Benton County. 25¢.
Clackamas County. 25¢.
Columbia County. 35¢.
Eugene Area (part of Lane County).
Grande Ronde Valley Area (part of Union County). 25¢.
Jackson County. (See Medford Area.)
Josephine County. 25¢.
Lane County. (See Eugene Area.)
Linn County. 50¢.
Marion County. 20¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

- Medford Area (part of Jackson County).
 Multnomah County. 25¢.
 Polk County. 25¢.
 Union County. (See Baker City and Grande Ronde Valley Areas.)
 Washington County. 25¢.
 *Yamhill County. 25¢.

PENNSYLVANIA

- *Adams County. 15¢.
 Bedford County. 15¢.
 Blair County. 15¢.
 Bradford County.
 *Cambria County. 15¢.
 Clearfield County. 15¢.
 Clinton County. (See Lockhaven Area.)
 Greene County. 15¢.
 Lancaster County.
 *Lockhaven Area (part of Clinton County). 15¢.
 Mercer County. 15¢.
 Tioga County. 40¢.
 *Washington County. 15¢.
 Wyoming County. 30¢.

PUERTO RICO

- *Arecibo to Ponce. 15¢.

SOUTH CAROLINA

- Anderson County.
 Berkeley County.
 *Campobello Area (parts of Greenville and Spartanburg Counties).
 15¢.
 Dillon County. 35¢.
 Greenwood County. 30¢.
 *Greenville County. (See also Campobello Area.) 15¢.
 *Horry County. 35¢.
 Kershaw County. 15¢.
 Lexington County. 25¢.
 Marlboro County. 15¢.
 Newberry County. 30¢.
 Saluda County.
 *Spartanburg County. (See also Campobello Area.) 25¢.
 *Williamsburg County. 15¢.

SOUTH DAKOTA

- Beadle County. 25¢.
 *Brookings Area (part of Brookings County). 15¢.
 Brookings County. (See Brookings Area.)
 *Brown County. 25¢.
 *Douglas County. 15¢.
 Grant County. 20¢.
 Hyde County. 20¢.
 *McCook County. 15¢.
 Moody County. 15¢.
 Union County. 20¢.
 Walworth County. 20¢.

TENNESSEE

- Bledsoe County. (See Pikeville Area.)
 Cocke County. (See Greeneville Area.)
 *Coffee County. 15¢.
 Cumberland County. (See Pikeville Area.)
 *Davidson County. 15¢.
 Dickson County. 20¢.
 Grainger County. 15¢.
 Greene County. (See Greeneville Area.)
 Greeneville Area (parts of Cocke, Greene, Hawkins, and Sullivan
 Counties, Tenn., and Madison County, N. C.).
 *Hardin County. 15¢.
 Hawkins County. (See Greeneville Area.)
 *Henderson County. 15¢.
 Henry County. 25¢.
 *Jackson County. 15¢.
 *Lawrence County. 15¢.
 *Maury County. 25¢.
 Meigs County. 15¢.

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 How to Order.

*For sale only.

Pikeville Area (parts of Bledsoe, Cumberland, Rhea, and Van Buren Counties).

- *Putnam County. 15¢.
- Rhea County. (See Pikeville Area.)
- Shelby County. 15¢.
- Sullivan County. (See Greeneville Area.)
- Sumner County.
- Van Buren County. (See Pikeville Area.)

TEXAS

- Coleman County. 25¢.
- Collin County. 20¢.
- Dickens County. 20¢.
- Eastland County. 15¢.
- Erath County. 25¢.
- Falls County. 30¢.
- Frio County. 30¢.
- Galveston County. 35¢.
- Hardeman County. 35¢.
- Harrison County.
- Midland County. 20¢.
- Milam County. 30¢.
- Nacogdoches County. 25¢.
- Polk County. 50¢.
- *Potter County. 40¢.
- Randall County. 35¢.
- Red River County.
- Reeves County. 20¢.
- Rockwall County. 20¢.
- Scurry County. 30¢.
- Taylor County. 15¢.
- Van Zandt County. 30¢.
- Victoria County. 25¢.
- Washington County.
- Wichita County. 20¢.

Reconnaissance

Northwest Texas (Bailey, Cochran, Cottle, Crosby, Dickens, Floyd, Foard, Garza, Hale, Hardeman, Haskell, Hockley, Kent, King, Knox, Lamb, Lubbock, Lynn, Motley, Stonewall, Terry, and Yoakum Counties).

- *Trans-Pecos Area (Brewster, Culberson, El Paso, Hudspeth, Jeff Davis, Pecos, Presidio, Reeves, and Terrell Counties). 35¢.
- West Central Texas (Andrews, Borden, Coke, Concho, Crane, Dawson, Ector, Fisher, Gaines, Glasscock, Howard, Irion, Jones, Loving, Martin, Midland, Mitchell, Nolan, Reagan, Runnels, Scurry, Sterling, Taylor, Tom Green, Upton, Ward, and Winkler Counties). 30¢.

UTAH

- Ashley Valley (part of Uintah County). 15¢.
- Bear River Area (part of Box Elder County).
- Box Elder County. (See Bear River Area.)
- Delta Area (part of Millard County). 15¢.
- Millard County. (See Delta Area.)
- Uintah County. (See Ashley Valley and Uintah River Valley Areas.)
- Uintah River Valley Area (part of Uintah County). 25¢.

VERMONT

- Windsor County. 15¢.

VIRGIN ISLANDS

- Reconnaissance of St. Croix Island. 20¢. (Tech. Bull. 315.)

VIRGINIA

- Grayson County. 25¢.
- Nansemond County. 30¢.
- Orange County.
- *Pittsylvania County. 25¢.
- Rockbridge County. 35¢.

WASHINGTON

- *Benton County. 15¢.
- Chelan County. (See Wenatchee Area.)
- *Franklin County. 35¢.
- Spokane County.
- Wenatchee Area (part of Chelan County). 25¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Reconnaissance

Columbia Basia Area (Franklin County and parts of Adams, Grant, Lincoln, and Walla Walla Counties).

WEST VIRGINIA

- Barbour and Upshur Counties. 15¢.
 Berkeley County. (See Jefferson, Berkeley, and Morgan Counties.)
 *Boone County. 15¢.
 Braxton and Clay Counties. 25¢.
 Cabell County. (See Huntington Area.)
 Clay County. (See Braxton and Clay Counties.)
 Fayette County. 20¢.
 Grant and Mineral Counties. 25¢.
 Hampshire County. 20¢.
 Hardy and Pendleton Counties. 50¢.
 *Huntington Area (Cabell, Lincoln, and Wayne Counties). 25¢.
 Jackson County. (See Point Pleasant Area.)
 Jefferson, Berkeley, and Morgan Counties. 25¢.
 Jefferson County. (See Jefferson, Berkeley, and Morgan Counties.)
 Lincoln County. (See Huntington Area.)
 *Logan and Mingo Counties. 15¢.
 *McDowell and Wyoming Counties. 15¢.
 Mason County. (See Point Pleasant Area.)
 Mercer County. 20¢.
 Mineral County. (See Grant and Mineral Counties.)
 *Mingo County. (See Logan and Mingo Counties.)
 Monroe County. 20¢.
 Morgan County. (See Jefferson, Berkeley, and Morgan Counties.)
 Nicholas County. 25¢.
 Pendleton County. (See Hardy and Pendleton Counties.)
 *Point Pleasant Area. (Jackson, Mason, and Putnam Counties.) 25¢.
 Putnam County. (See Point Pleasant Area.)
 *Raleigh County. 15¢.
 Randolph County. 40¢.
 Summers County. 15¢.
 Tucker County. 15¢.
 *Upshur County. (See also Barbour and Upshur Counties.) 15¢.
 Wayne County. (See Huntington Area.)
 Webster County. 15¢.
 Wyoming County. (See McDowell and Wyoming Counties.)

WISCONSIN

- Adams County. 25¢.
 *Brown County. 30¢.
 *Buffalo County. 15¢.
 Calumet County. 25¢.
 *Columbia County. 15¢.
 Crawford County. 35¢.
 *Dane County. (See also Janesville Area.) 15¢.
 Door County.
 Green County. 20¢.
 Green Lake County. 20¢.
 *Iowa County. 15¢.
 Jackson County. 25¢.
 Janesville Area (parts of Dane and Rock Counties). 15¢.
 *Juneau County. 15¢.
 Kenosha and Racine Counties. 25¢.
 *Kewaunee County. 15¢.
 Manitowac County. 15¢.
 Milwaukee County.
 Monroe County. (See also Viroqua Area.) 25¢.
 Outagamie County. 35¢.
 Ozaukee County. (See Washington and Ozaukee Counties).
 Pierce County. 20¢.
 Portage County. 15¢.
 *Racine County. (See also Kenosha and Racine Counties). 15¢.
 Rock County. (See also Janesville Area.) 25¢.
 Sauk County. 25¢.
 Sheboygan County. 20¢.
 Trempealeau County. 25¢.
 Vernon County. (See also Viroqua Area.) 20¢.
 Viroqua Area. (Parts of Monroe and Vernon Counties.) 15¢.
 Walworth County. 15¢.
 Washington and Ozaukee Counties. 25¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Waukesha County. 15¢.
 Waupaca County. 15¢.
 Waushara County. 15¢.
 Winnebago County. 20¢.
 Wood County. 15¢.

Reconnaissance

Marinette County. 15¢.
 North Part North-Central Wisconsin. (Iron, Oneida, Price, and Vilas Counties, and parts of Ashland and Rusk Counties.)
 South Part North-Central Wisconsin. (Clark, Lincoln, Marathon, and Taylor Counties.) 15¢.

WYOMING

Albany County. (See Laramie Area.)
 Basin Area (parts of Big Horn, Park, and Washakie Counties). 60¢.
 Big Horn County. (See Basin and Shoshone Areas.)
 Fort Laramie Area—Wyoming-Nebraska (parts of Goshen County, Wyo., and Scotts Bluff County, Nebr.)
 Goshen County. (See Fort Laramie Area.)
 Laramie Area (part of Albany County). 25¢.
 Park County. (See Basin and Shoshone Areas.)
 Platte County. (See Wheatland Area.)
 Shoshone Area (parts of Big Horn and Park Counties). 35¢.
 Washakie County. (See Basin Area.)
 Wheatland Area (part of Platte County). 20¢.

U. S. POSSESSIONS

ALASKA

Department Bulletins:

- *1089 D. Reindeer in Alaska. 25¢.
- *1350 D. Blue-fox farming in Alaska. 10¢.
- *1423 D. Progress of reindeer grazing investigations in Alaska. 15¢.

Miscellaneous Publications:

- *195 MP. A plan for the management of brown bear in relation to other resources on Admiralty Island, Alaska. 5¢.

Technical Bulletins:

- *226 T. The distribution and the mechanical properties of Alaska woods. 20¢.
- 412 T. Yield of second-growth western hemlock-Sitka spruce stands in southeastern Alaska. 5¢.

Alaska Agricultural Experiment Station Bulletins:

- *9 AB. The potato in Alaska. 5¢.
- *10 AB. Oat production in Alaska. 10¢.
- *11 AB. Forage crops in the Matanuska region, Alaska. 5¢.

Alaska Agricultural Experiment Station Circulars:

- *3 AC. List and analytical index of publications of the Alaska Agricultural Experiment Stations—January 1898, to July 1931. 10¢.
- *4 AC. Field crops for interior Alaska. 5¢.
- *5 AC. Feeding dairy cows in the Matanuska region, Alaska. 5¢.

Alaska Game Commission Circulars:

- *11 AGCC. Regulations relating to game, land fur animals, and birds in Alaska, 1933-34. 5¢.
- *12 AGCC. Regulations relating to game, land fur animals, and birds in Alaska, 1935-36. 5¢.
- *13 AGCC. Regulations relating to game, land fur animals, and birds in Alaska, 1936-37. 5¢.

Annual Reports of the Alaska Agri. Exp. Sta.:

- *1928, 10¢; *1929, 10¢; *1930, 15¢; *1931-32, 5¢.

GUAM

Guam Agricultural Experiment Station Bulletins:

- *3 GB. The sorghums in Guam. 10¢.
- *4 GB. Leguminous crops for Guam. 10¢.
- *5 GB. Effect of time of planting and fertilizers on the yield of vegetables. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Guam Agricultural Experiment Station Extension Circulars:

- *2 GEC. The home garden for club members. 5¢.
- *3 GEC. Corn growing in Guam for club members. 5¢.

Annual reports of the Guam Agri. Exp. Sta.:

- *1930, 15¢; *1931-32, 5¢.

HAWAII

Yearbook separates:

- *663 Y. How Hawaii helps her farmers to market their produce. 5¢.

Hawaii Agricultural Experiment Station Bulletins:

- *11 HB. The black wattle in Hawaii. 10¢.
- *23 HB. Leguminous crops for Hawaii. 10¢.
- *24 HB. The assimilation of nitrogen by rice. 5¢.
- *28 HB. The effect of manganese on pineapple plants and the ripening of the pineapple fruit. 20¢.
- *33 HB. The organic nitrogen of Hawaiian soils. 5¢.
- *35 HB. Absorption of fertilizer salts by Hawaiian soils. 5¢.
- *37 HB. Ammonification and nitrification in Hawaiian soils. 10¢.
- *39 HB. The biochemical decomposition of nitrogenous substances in soils. 5¢.
- *41 HB. Phosphate fertilizers for Hawaiian soils, and their availability. 10¢.
- *44 HB. Litchi in Hawaii. 10¢.
- *45 HB. Potato diseases in Hawaii and their control. 20¢.
- *49 HB. The acid lime fruit in Hawaii. 10¢.
- *50 HB. The sweetpotato in Hawaii. 5¢.
- *52 HB. Manganese chlorosis of pineapples: Its cause and control. 15¢.
- *53 HB. The Hawaiian tree fern as a commercial source of starch. 10¢.
- *54 HB. Edible canna in Hawaii. 5¢.
- *55 HB. Banana culture in Hawaii. 20¢.
- *56 HB. Carbohydrate metabolism and its relation to growth in the edible canna. 10¢.
- *57 HB. Edible canna in the Waimea district of Hawaii. 15¢.
- *58 HB. Mango culture in Hawaii. 20¢.
- *59 HB. The Macadamia nut in Hawaii. 10¢.
- *60 HB. The utilization and composition of oriental vegetables in Hawaii. 35¢.
- *62 HB. Physical properties of Hawaii soils with special reference to the colloidal fraction. 15¢.
- *63 HB. Physiochemical properties of edible-canna and potato starches. 10¢.
- *64 HB. The pigeon pea (*Cajanus indicus*) its improvement, culture, and utilization in Hawaii. 20¢.
- *65 HB. Range grasses of Hawaii. 5¢.
- *74 HB. The edible passion fruit in Hawaii. 5¢.

Hawaii Agricultural Experiment Station Extension Bulletins:

- *9 HEB. Hawaiian vegetables and their functions in the diet. 10¢.
- *10 HEB. Index to publications of the Hawaii Agricultural Experiment Station—July 1, 1901, to December 31, 1926. 10¢.

Annual Reports of the Hawaii Agri. Exp. Sta.:

- *1930, 10¢; *1931, 5¢; *1932, 5¢; *1933, 5¢; *1934, 5¢; *1935, 5¢.

PUERTO RICO

Puerto Rico Experiment Station Bulletins:

- *11 PRB. Relation of calcareous soils to pineapple chlorosis. 10¢.
- *12 PRB. Lime magnesia ratio as influenced by concentration. 10¢.
- *17 PRB. Fungous diseases of coffee in Porto Rico. 10¢.
- *23 PRB. The changa or West Indian mole cricket. 10¢.
- *30 PRB. Coffee varieties in Porto Rico. 10¢.
- *32 PRB. Effect of topping on yield of coffee in Porto Rico. 5¢.
- *33 PRB. Citrus culture in Porto Rico. 10¢.
- *34 PRB. Experiments with fertilizers on coconut palms and variation in palm productivity. 10¢.
- *35 PRB. Sugarcane variety P. O. J. 2878 in Puerto Rico. 5¢.
- *36 PRB. Parasites and parasitic diseases of cattle in Puerto Rico. 5¢.
- *37 PRB. Parasites and parasitic diseases of horses in Puerto Rico. 5¢.
- *38 PRB. Parasites and parasitic diseases of swine in Puerto Rico. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

176 MISCELLANEOUS PUBLICATION NO. 60

Puerto Rico Experiment Station Circulars:

- *17 PRC. Some means of controlling insects, fungi, and other pests in Porto Rico. 5¢.
- *18 PRC. The selection of seed corn in Porto Rico. 10¢.
- *20 PRC. Mosquito survey of Mayaguez. 5¢.

Annual Reports of the Puerto Rico Agri. Exp. Sta.:

- *1931, 10¢; *1932, 5¢; *1933, 5¢; *1934, 5¢.

VIRGIN ISLANDS

Technical Bulletins:

- *315 T. Soil survey (reconnaissance) of St. Croix Island Virgin Islands. 20¢.

Virgin Islands Agricultural Experiment Station Bulletins:

- *3 VIB. Insect pests of cotton in St. Croix and means of combating them. 5¢.
- *5 VIB. Production of sweetpotato seedlings at the Virgin Islands experiment station. 10¢.

Annual Reports of the Virgin Islands Agri. Exp. Sta.:

- *1919, 5¢; *1920, 5¢; *1921, 5¢; *1922, 5¢; *1923, 5¢; *1924, 10¢; *1925, 5¢; *1926, 5¢; *1927, 10¢; *1928, 5¢; *1929, 10¢; *1930, 5¢; *1931, 10¢; *1932, 5¢.

WEATHER AND CLIMATE

Farmers' Bulletins:

- 1512 F. Protection of buildings and farm property from lightning. 5¢.
- 1588 F. Frost and the prevention of frost damage. 5¢.

Circulars:

- 140 C. Handling livestock during drought. 5¢.
- *398 C. Measuring fire weather and forest inflammability. 10¢.

Department Bulletins:

- *1438 D. Weather damage to cotton. 5¢.

Department Circulars:

- *354 DC. Weather conditions and forest fires in California. 5¢.

Miscellaneous Circulars:

- *81 MC. The relation between crop yields and precipitation in the Great Plains area. 30¢. Supplement No. 1: Crop rotations and tillage methods. 50¢.

Miscellaneous Publications:

- *71 MP. Weather forecasting from synoptic charts. 20¢.
- 114 MP. The Weather Bureau. 5¢.
- 118 MP. The influence of weather on crops: 1900-1930. A selected and annotated bibliography. 40¢.
- *165 MP. The barrier system for control of floods in mountain streams. 5¢.
- 196 MP. Floods and accelerated erosion in northern Utah. 5¢.
- 197 MP. The hurricane. 5¢.
- *204 MP. Rainfall intensity-frequency data. 10¢.
- *221 MP. Soil blowing and dust storms. 5¢.
- *236 MP. Forecasting from synoptic weather charts. 5¢.

Technical Bulletins:

- *247 T. Forest types in the Southwest as determined by climate and soil. 30¢.
- *409 T. The influence of precipitation and grazing upon black grama grass range. 5¢.
- *510 T. Variations in naval-stores yields associated with weather and specific days between chippings. 5¢.

Yearbook Separates:

- *918 Y. Weather and agriculture. 20¢.
- *1258 Y. Miscellaneous agricultural statistics dealing with temperature, precipitation, and frost. (1932.) 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Unnumbered:

- *Weather Bureau Bulletin W (revision), climatic summary of the United States, including Alaska, Hawaii, and the West Indies, unbound, comprising 111 parts, each based on data from the beginning of observations to the end of 1930. 10¢ for each part (revision not yet completed).
- *Weather Bureau Bulletin W, climatic summary of the United States, made up of all available editions. \$5.00.
- *International Radio Weather Code, for use on U. S. selected ships, 1930. 75¢.
- *Vessel Weather Code for Observers, 1931 edition. \$1.00.
- *Weather Code, 1931 edition. \$1.50.
- River Stages at river-gage stations on the principal rivers of the United States (paper covers):
 - *Vol. 17 (1919), 50¢.
 - *Vol. 18 (1920), 25¢.
 - *Vol. 19 (1921), 40¢.
 - *Vol. 20 (1922), 40¢.
 - *Vol. 21 (1923), 35¢.
 - *Vol. 22 (1924), 35¢.
 - *Vol. 23 (1925), 50¢.
 - *Vol. 24 (1926), 50¢.
 - *Vol. 25 (1927), 35¢.
 - *Vol. 26 (1928), 60¢.
 - *Vol. 27 (1929), 50¢.
 - *Vol. 28 (1930), 50¢.
 - *Vol. 29 (1931), 50¢.
 - *Vol. 30 (1932), 25¢.
 - *Vol. 31 (1933), 35¢.
 - *Vol. 32 (1934), 35¢.
- *Cloud Forms, 12 half-tone plates on sheet 20 by 26 inches; 5¢.
- *Cloud Forms, with 32 half-tone plates, descriptive pamphlet, 22 pages (W. B. No. 956); 20¢.
- *Weather Bureau Circular A, Instructions for Obtaining and Tabulating Records from Recording Instruments, 3d edition; 10¢.
- *Weather Bureau Circulars B and C, combined; Instructions for Cooperative Observers, 7th edition; 10¢.
- *Weather Bureau Circular D, Instructions for the Installation and Maintenance of Wind Measuring and Recording Apparatus, 4th edition; 15¢.
- Appendix 2, Instructions for Wiring Meteorological Instruments; 15¢.
- *Weather Bureau Circular E, Measurement of Precipitation, 4th edition; 5¢.
- *Weather Bureau Circular F, Barometers and the Measurement of Atmospheric Pressure, 5th edition; 15¢.
- *Weather Bureau Circular G, Care and Management of Electrical Sunshine Recorders, 5th edition; 5¢.
- *Weather Bureau Circular I, Instructions for Erecting and Using Weather Bureau Nephoscope, 1919 pattern; 10¢.
- *Weather Bureau Circular J, Instructions for the Installation and Maintenance of Marvin Water-Stage Registers, with Specifications; 10¢.
- *Weather Bureau Circular L, Instructions for the Installation and Operation of Class "A" Evaporation Stations; 10¢.
- *Weather Bureau Circular M, Instructions to Marine Meteorological Observers; 15¢.
- *Weather Bureau Circular N, Instructions for Airway Meteorological Service; 25¢.
- *Weather Bureau Circular O, Instructions for Making Pilot-Balloon Observations; 20¢.
- *Weather Bureau Circular Q, Pyrheliometers and Pyrheliometric Measurements; 5¢.
- *Weather Bureau Circular R, Preparation and Use of Weather Maps at Sea; 10¢.
- *Psychrometric Tables for Obtaining the Vapor Pressure, Relative Humidity, and Temperature of the Dew-Point (W. B. No. 235); 10¢. Abridged separates, pressure 23, 25, 27, 29, and 30 inches; 5¢ each.
- *Relative Humidity—Centigrade Temperatures (W. B. No. 1071); 5¢.

Monthly Weather Review Supplements:

- *No. 3. (Aerology No. 1.) Sounding Balloon Ascensions at Fort Omaha, Nebr., May 9, 1915, etc.; 25¢.
- *No. 4. Types of Anticyclones of the United States and Their Average Movements; 25¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Monthly Weather Review Supplements—Continued.

- *No. 5. Free-Air Data at Drexel Aerological Station, January, February, and March 1916; 25¢.
- *No. 9. Periodical Events and Natural Law as Guides to Agricultural Research and Practice; 25¢.
- *No. 16. Predicting Minimum Temperatures from Hygrometric Data; 25¢.
- *No. 17. Streamflow Experiment at Wagon Wheel Gap, Colo.; 25¢.
- *No. 18. Bibliography of the Climate of South America; 15¢.
- *No. 19. Thermal Belts and Fruit Growing in North Carolina; 50¢.
- *No. 20. An Aerological Survey of the United States; 25¢.
- *No. 21. The Preparation and Significance of Free-Air Pressure Maps for the Central and Eastern United States; 25¢.
- *No. 22. The Spring Floods of 1922; 25¢.
- *No. 23. The Temperature of Mexico; 25¢.
- *No. 25. Normals of Daily Temperature for the United States; 20¢.
- *No. 26. An Aerological Survey of the United States, part II; 20¢.
- *No. 27. Montezuma Pyrheliometry; 20¢.
- *No. 28. Climatological Data for the Tropical Islands of the Pacific Ocean (Oceania); 10¢.
- *No. 29. The Floods of 1927 in the Mississippi Basin; 20¢.
- *No. 30. Forest and Streamflow Experiment at Wagon Wheel Gap, Colo.; 25¢.
- *No. 31. Climatological Data for Northern and Western Tropical South America; 10¢.
- *No. 32. Climatological Data for Southern South America; 10¢.
- *No. 34. The Daily, Monthly, and Annual Normals of Precipitation in the United States; 35¢.
- *No. 35. Upper-Air Wind Roses and Resultant Winds for the Eastern Section of the United States; 15¢.
- *Relation between the Precipitation over the Watershed of the Ohio River above and the Streamflow at Cincinnati (Bulletin No. 40); 15¢.
- *Forecasting Frost in the North Pacific States (Bulletin No. 41); 10¢.
- *Weather Forecasting (Bulletin No. 42); 5¢.
- *The Daily Weather Map, with Explanation. Descriptive text with 4 charts; 5¢.
- *Explanation of the Weather Map, 4-page leaflet; 30 for 25¢, 100 for 75¢.

Climatic Charts for the United States:

(Fifteen charts, 10 by 16 inches, 75 cents per set; single charts, 5 cents each.)

1. Normal Annual Precipitation.
2. Average Annual Number of Days with Precipitation.
3. Normal Annual Temperature.
4. Normal January Temperature.
5. Normal July Temperature.
6. Highest Temperature Ever Observed.
7. Lowest Temperature Ever Observed.
8. Mean Relative Humidity (percent), January, 8 a. m., 75th meridian time.
- 8A. Mean Relative Humidity (percent), January, noon, local time.
9. Mean Relative Humidity (percent), January, 8 p. m., 75th meridian time.
10. Mean Relative Humidity (percent), July, 8 a. m., 75th meridian time.
- 10A. Mean Relative Humidity (percent), July, noon, local time.
11. Mean Relative Humidity (percent), July, 8 p. m., 75th meridian time.
- 11A. Mean Relative Humidity (percent), year, noon, local time.
12. Average Minimum Temperature (Fahrenheit), January.

Frost Charts for the United States:

(Five charts, 10 by 16 inches, 25 cents per set; single charts, 5 cents each.)

- I. The Average Date of the Last Killing Frost in Spring.
- II. The Average Date of the First Killing Frost in Autumn.
- III. The Latest Date on Which a Killing Frost Has Occurred in Spring.
- IV. The Earliest Date on Which a Killing Frost Has Occurred in Autumn.
- V. The Average Length of the Crop-growing Season, Days.

Maps:

- *Educational Series.—(1) Weather forecasting. (Bulletin No. 42.)
- (2) Explanation of weather map and sample weather map, (3) Cloud chart, (4) The Weather Bureau, pamphlet descriptive of work of Bureau. 10¢ per set.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Maps—Continued.

- *Daily weather map (Form C, 19 by 24 inches), issued at Washington, D. C., shows the weather conditions for the United States and the forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ per month, \$3.00 per year; daily, including Sundays and holidays, 30¢ per month, \$3.60 per year; Sunday and holiday maps only (no subscription for less than 6 months), 30¢ for 6 months, 60¢ per year; foreign subscriptions, \$9.10 per year.
- *Daily weather maps (Map DD, 11 by 16 inches, and Map CM, 8 by 12 inches, printed, and Map E, 11 by 16 inches, mimeographed), showing the weather conditions and forecasts, issued daily, except Sundays and holidays, at numerous stations throughout the United States; 20¢ per month, \$2.40 per year.
- *Copies of the daily weather map (DD, E, and CM) cannot be furnished in quantities unless the order is placed in advance of issue with the official in charge of the station or with the Superintendent of Documents, Washington, D. C., and are sold (not less than 25) at 80¢ per 100 copies.
- *Blank Weather Maps for use in meteorological studies will be furnished on receipt of price, viz., Washington base maps (Form C, 19 by 24 inches), \$1 per 100; station base maps (Maps DD, 11 by 16 inches), 25¢ per 100. Blank maps, being of the nature of supplies, cannot be furnished free. Draft or money order must be made payable to Disbursing Clerk, U. S. Department of Agriculture, Washington, D. C., and forwarded with order to U. S. Weather Bureau, Washington, D. C. When more than 50 blank Washington base maps (Form C, 19 by 24 inches) or more than 150 blank station base maps (Maps DD, 11 by 16 inches) are ordered at one time shipment has to be made by express "collect" for express charges, and must be so authorized by purchaser. Full shipping instructions must accompany the order.

WILDLIFE

(See also Department Organization: Laws—Rules—Regulations.)

BIRDS**Farmers' Bulletins:**

- 497 F. Some common game, aquatic, and rapacious birds in relation to man. 5¢.
- 506 F. Food of some well-known birds of forest, farm, and garden. 5¢.
- *513 F. Fifty common birds of farm and orchard. 25¢.
- *621 F. How to attract birds in northeastern United States. 5¢.
- 630 F. Some common birds useful to the farmer. 5¢.
- 755 F. Common birds of southeastern United States in relation to agriculture. 5¢.
- *760 F. How to attract birds in northwestern United States. 5¢.
- *844 F. How to attract birds in the Middle Atlantic States. 5¢.
- *912 F. How to attract birds in the East Central States. 5¢.
- *1102 F. The crow and its relation to agriculture. 5¢.
- *1327 F. Canaries: Their care and management. 5¢.
- *1373 F. Homing pigeons: Their care and training. 5¢.
- 1456 F. Homes for birds. 5¢.
- 1571 F. The European starling in the United States. 5¢.
- 1612 F. Propagation of aquatic game birds. 5¢.
- 1613 F. Propagation of upland game birds. 5¢.
- 1644 F. Local bird refuges. 5¢.
- 1682 F. Usefulness of birds on the farm. 5¢.

Leaflets:

- *36 L. Gourds for bird houses and other purposes. 5¢.
- 61 L. English sparrow control. 5¢.
- 96 L. Protecting poultry from predacious birds. 5¢.
- 120 L. Excluding birds from reservoirs and fishponds. 5¢.

Circulars:

- *96 C. Game birds suitable for naturalizing in the United States. 10¢.
- *118 C. Calculating waterfowl abundance on the basis of banding returns. 5¢.
- 339 C. A program of waterfowl restoration. 5¢.
- *342 C. The waterfowl flyways of North America. 5¢.

For information in obtaining publications free and for sale, see p. 2, How to Order.

*For sale only.

Circulars—Continued.

- 348 C. Quail-food plants of the Southeastern States. 5¢.
- *363 C. The migration of North American birds. 10¢.
- *370 C. Food habits of common hawks. 5¢.

Department Bulletins:

- *128 D. Distribution and migration of North American rails and their allies. 10¢.
- *794 D. Waterfowl and their food plants in the Sandhill region of Nebraska. 15¢.
- *1145 D. Migration records from wild ducks and other birds banded in the Salt Lake Valley, Utah. 5¢.
- *1268 D. Returns from banded birds, 1926 to 1923. 10¢.

Department Circulars:

- *182 DC. The Migratory Bird Treaty Act. 5¢.
- *261 DC. The purpose of bird censuses and how to take them. 5¢.

Miscellaneous Circulars:

- *13 MC. Local names of migratory game birds. 10¢.

Miscellaneous Publications:

- 127 MP. Peafowl and their care. 5¢.
- *145 MP. Policies of the Bureau of Biological Survey relative to the control of injurious birds. 5¢.
- *210 MP. Status of waterfowl in 1934. 5¢.

Technical Bulletins:

- *24 T. The magpie in relation to agriculture. 10¢.
- *26 T. Our migrant shorebirds in southern South America. 5¢.
- *32 T. Returns from banded birds, 1923 to 1926. 20¢.
- *61 T. Wild birds introduced or transplanted in North America. 10¢.
- *221 T. Wild-duck foods of North Dakota lakes. 15¢.
- *467 T. The crested myna, or Chinese starling, in the Pacific Northwest. 5¢.

Yearbook Separates:

- 1429 Y. Bird species not menaced by local control campaigns. 5¢.
- 1430 Y. Elgrass disappearance has serious effects on waterfowl and industry. 5¢.
- 1435 Y. Restocking of marshes with hand-reared mallards not proved practicable. 5¢.
- 1518 Y. Waterfowl breeding grounds of far North now poorly tenanted. 5¢.
- 1519 Y. Waterfowl problems clarified by study of gunning practices. 5¢.

Posters:

- Open seasons for migratory game birds, 1936-37. Bi. 57.

Bureau of Biological Survey Service and Regulatory Announcements:

- Apply direct to the Bureau of Biological Survey, U. S. Department of Agriculture, Washington, D. C., for the following:
- 82 Text of Federal laws relating to the protection of wildlife.
- 83 Migratory Bird Treaty Act regulations: 1935.
- 84 Migratory Bird Treaty Act regulations: 1936.

Diseases: Birds**Technical Bulletins:**

- 49 T. Nematodes of pathological significance found in some economically important birds in North America. 5¢.
- 227 T. Developmental stages of some nematodes of the Spiruroidea parasitic in poultry and game birds. 15¢.
- *411 T. Western duck sickness: A form of botulism. 10¢.
- 516 T. Species of *Capillaria* parasitic in the upper digestive tract of birds. 5¢.

Yearbook Separates:

- 1513 Y. Botulism is a factor in the decrease of western waterfowl. 5¢.

FUR-BEARING ANIMALS**Farmers' Bulletins:**

- 587 F. Economic value of North American skunks. 5¢.
- 869 F. The muskrat as a fur bearer, with notes on its use as food. 5¢.

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LIST OF AVAILABLE PUBLICATIONS 181

Farmers' Bulletins—Continued.

- 1334 F. Home tanning of leather and small fur skins. 5¢.
1730 F. Rabbit production. 5¢.

Leaflets:

- 8 L. Mink raising. 5¢.
27 L. Recommendations to beginners in fur farming. 5¢.
47 L. Hygiene in fox farming. 5¢.

Circulars:

- *107 C. The normal breeding season and gestation period of martens. 5¢.

Department Bulletins:

- *1151 D. Silver-fox farming. 15¢.
*1350 D. Blue-fox farming in Alaska. 10¢.

Technical Bulletins:

- *21 T. Beaver habits and experiments in beaver culture. 20¢.

Yearbook Separates:

- 823 Y. Trapping on the farm. 5¢.
1433 Y. Rabbit-raising profits materially influenced by age at marketing. 5¢.
1514 Y. Fur scarcity through overtrapping impends; conservation needed. 5¢.

GAME ANIMALS

Department Bulletins:

- *1089 D. Reindeer in Alaska. 25¢.
*1346 D. Status of the pronghorned antelope, 1922-1924. 15¢.
*1423 D. Progress of reindeer grazing investigations in Alaska. 15¢.

Department Circulars:

- *161 DC. Pisgah National Game Preserve: Regulations and information for the public. 5¢.

Miscellaneous Publications:

- *207 MP. Raising reindeer in Alaska. 5¢.

Technical Bulletins:

- *147 T. The habits and economic importance of alligators. 10¢.

Yearbook Separates:

- 823 Y. Trapping on the farm. 5¢.

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83 Migratory Bird Treaty Act regulations: 1935.

HARMFUL WILD MAMMALS

Farmers' Bulletins:

- 702 F. Cottontail rabbits in relation to trees and farm crops. 5¢.
*1397 F. Mouse control in field and orchard. 5¢.
1533 F. Rat control. 5¢.
1598 F. Mountain beavers in the Pacific Northwest: Their habits, economic status, and control. 5¢.
1638 F. Rat proofing buildings and premises. 5¢.
1709 F. Pocket-gopher control. 5¢.
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Leaflets:

- 21 L. Woodchuck control in the Eastern States. 5¢.
50 L. How to make a cat trap. 5¢.
59 L. Hints on coyote and wolf trapping. 5¢.
60 L. Porcupine control in the Western States. 5¢.
65 L. Red-squill powder in rat control. 5¢.
78 L. Hints on bobcat trapping. 5¢.
94 L. Hints on mountain-lion trapping. 5¢.
109 L. Eliminating bats from buildings. 5¢.

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Circulars:

- *362 C. Food habits of the coyote in Jackson Hole, Wyo. 5¢.
 *381 C. Rodents and moles as pests in bulb plantings. 5¢.

Department Bulletins:

- *915 D. Toxicity of barium carbonate to rats. 5¢.
 *1091 D. Life history of the kangaroo rat. 15¢.

Miscellaneous Publications:

- *115 MP. Information for the guidance of field men and cooperators of the Bureau of Biological Survey engaged in the control of injurious rodents and predatory animals. 5¢.

Technical Bulletins:

- *134 T. Red-squill powders as raticides. 5¢.
 *145 T. Life history and habits of grasshopper mice, genus *Onychomys*. 10¢.
 *224 T. Habits and economic status of the pocket gophers. 10¢.
 238 T. The pharmacology of thallium and its use in rodent control. 5¢.

Yearbook Separates:

- *724 Y. Cooperative campaigns for the control of ground squirrels, prairie-dogs, and jack rabbits. 5¢.
 *725 Y. The house rat: The most destructive animal in the world. 5¢.
 823 Y. Trapping on the farm. 5¢.
 *855 Y. Death to the rodents. 5¢.
 1434 Y. Rat baits canned to aid cooperative antirrat campaigns. 5¢.
 1517 Y. Predators and rodents are factors in the spread of disease. 5¢.

Posters:

- *Colored poster: Vandals of the night, while America sleeps, rats destroy entire labor of 200,000 men, and pestilence lurks in their wake. For use in encouraging control of rats in cooperative campaigns. 5¢.

NORTH AMERICAN FAUNA

This is a technical series of the Bureau of Biological Survey devoted principally to revisions of genera of vertebrate wildlife and to biological surveys of States and other major areas; of interest chiefly to professional biologists.

North American Fauna:

- *27 NAF. Biological investigations of the Athabaska-Mackenzie region. \$1.25.
 *43 NAF. Rice rats of North America (genus *Oryzomys*). 20¢.
 *47 NAF. Revision of the American pikas (genus *Ochotona*). 15¢.
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 *51 NAF. A taxonomic review of the American long-tailed shrews (genera *Sorex* and *Microsorex*). 50¢.
 *52 NAF. Revision of the American chipmunks (genera *Tamias* and *Eutamias*). 35¢.
 *53 NAF. Mammals of New Mexico. \$1.
 *54 NAF. Alaska-Yukon caribou. 20¢.

WILDLIFE CONSERVATION**Farmers' Bulletins:**

- 1719 F. Improving the farm environment for wildlife. 5¢.
 *1755 F. Game laws for the season 1935-36: A summary of the provisions of Federal, State, and Provincial statutes. 5¢.
 1766 F. Game laws for the season 1936-37: A summary of the provisions of Federal, State, and Provincial statutes. 5¢.

Circulars:

- 339 C. A program of waterfowl restoration. 5¢.
 *342 C. The waterfowl flyways of North America. 5¢.

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Department Bulletins:

- *1145 D. Migration records from wild ducks and other birds banded in the Salt Lake Valley, Utah. 5¢.
- *1346 D. Status of the pronghorned antelope, 1922-1924. 15¢.
- *1423 D. Progress of reindeer grazing investigations in Alaska. 15¢.

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- *182 DC. The migratory bird treaty act. 5¢.
- *261 DC. The purpose of bird censuses and how to take them. 5¢.

Miscellaneous Circulars:

- *36 MC. The Wichita National Forest and Game Preserve. 5¢.

Miscellaneous Publications:

- 159 MP. Winter feeding of wild life on northern farms. 5¢.
- *195 MP. A plan for the management of brown bear in relation to other resources on Admiralty Island, Alaska. 5¢.
- *207 MP. Raising reindeer in Alaska. 5¢.
- *210 MP. Status of waterfowl in 1934. 5¢.
- 231 MP. Officials and organizations concerned with wildlife protection, 1935. 5¢.
- 244 MP. Officials and organizations concerned with wildlife protection, 1936. 5¢.

Technical Bulletins:

- *32 T. Returns from banded birds, 1923 to 1926. 20¢.

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- 1518 Y. Waterfowl breeding grounds of far North now poorly tenanted. 5¢.
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(Publications issued since the main list was sent to press)

Farmers' Bulletins:

- 1759 F. Game management on the farm. 5¢.
1761 F. Harvesting with combines. 5¢.

Leaflets:

- 119 L. White clover. 5¢.

Circulars:

- 401 C. Control of the Japanese beetle and its grub in home yards. 5¢.
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410 C. Results from breeding rabbits that are suckling young. 5¢.
412 C. Plants valuable for wildlife utilization and for erosion control. 5¢.
415 C. Equipment for applying dust fungicides to seed grain. 5¢.

Miscellaneous Publications:

- *228 MP. Market diseases of fruits and vegetables: Peaches, plums, cherries, and other stone fruits. 15¢.
*243 MP. Manual of the grasses of the West Indies. \$1.25.
246 MP. Menus and recipes for lunches at school. 10¢.
247 MP. Forestry and permanent prosperity. 5¢.
248 MP. Peat land in the Pacific Coast States in relation to land and water resources. 15¢.
253 MP. Conservation farming practices and flood control. 10¢.

Technical Bulletins:

- 525 T. Handling, precooling, and transportation of Florida strawberries. 10¢.
526 T. Flow of water around 180-degree bends. 10¢.
527 T. Progressive effects of *Polyporus versicolor* on the physical and chemical properties of red gum sapwood. 10¢.
528 T. Conditions influencing erosion on the Boise River watershed. 5¢.
533 T. Subsoil waters of Newlands (Nev.) Field Station. 5¢.
539 T. Federal seed-loan financing and its relation to agricultural rehabilitation and land use. 10¢.

Yearbook Separates:

- 1555† Y. Introduction to the 1936 Yearbook. 15¢.
1556† Y. Sugar plants (1936). 15¢.
1557† Y. Grain crops (1936). 35¢.
1558† Y. Fiber crops (1936). 15¢.
1559† Y. Tobacco (1936). 10¢.
1560† Y. Livestock (1936). 35¢.

Separates from Agricultural Statistics:

- 1 SAS. Statistics of grains.
2 SAS. Statistics of cotton, sugar, and tobacco.
3 SAS. Statistics of fruits and vegetables.
4 SAS. Statistics of miscellaneous crops.
5 SAS. Statistics of beef cattle, hogs, sheep, horses, and mules.
6 SAS. Dairy and poultry statistics.
7 SAS. Foreign trade of the United States in agricultural products.
8 SAS. Farm business and related statistics.
9 SAS. Miscellaneous agricultural statistics.

Unnumbered:

- Annual report of the Chief of the Bureau of Chemistry and Soils, 1936. 10¢.
Annual report of the Chief of the Bureau of Dairy Industry, 1936. 5¢.
Annual report of the Chief of the Food and Drug Administration, 1936. 5¢.

†Devoted to the various phases of the science of plant and animal breeding.

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(This index is general in character and necessarily limited owing to lack of space. Bulletins devoted to specific crops or animals cover practically all phases of those subjects briefly.)

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